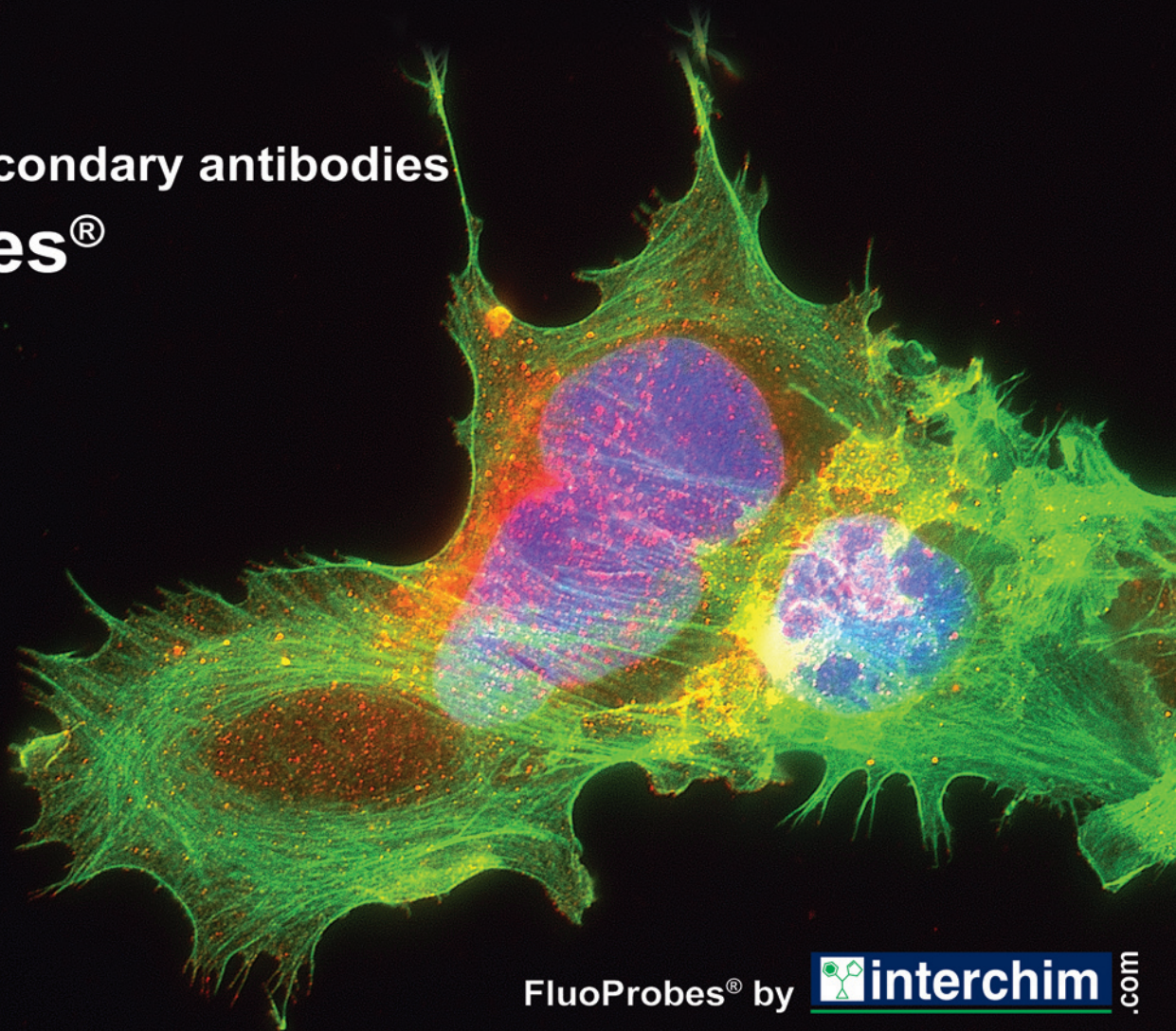


Fluorescent secondary antibodies
FluoProbes®



FluoProbes[®] dyes

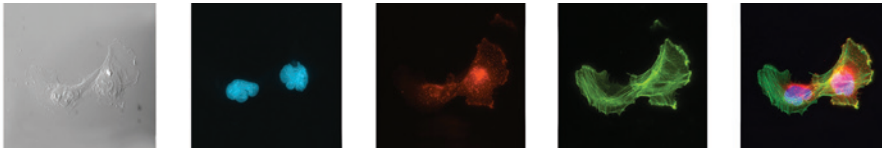
Interchim's FluoProbes[®] dyes exhibit optimal fluorescence intensity combined with excellent photostability. Activated dyes are available independent (please request information), conjugated to antibodies or additional molecular probes and can be used in microscopy applications, flow cytometry, or other immunodetection techniques.

- ♦ **High fluorescence intensity**
- ♦ **Excellent photostability** – very low photobleaching allowing users to obtain images in the harshest conditions
- ♦ **Multiple Labeling** - negligible overlapping between dyes allowing multiplex staining
- ♦ **Excellent stability** – full stability between **pH 4 and 10**
- ♦ **Compatibility** – excitation and emission spectra are consistent with all standard filters and lasers commonly used in labs.
- ♦ **Large and diversified range** - absorption spectrum from 390 to 706 nm

FluoProbes[®] dyes directly conjugated to secondary antibodies

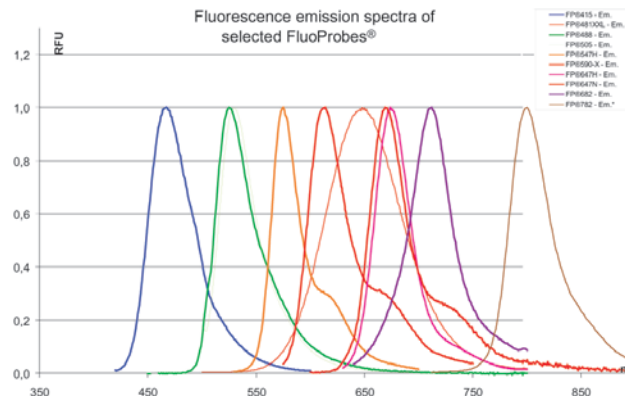
Dyes	$\lambda_{abs.}/\lambda_{em.}$	Excitation source	Standard filters
FP-488	493 nm / 518 nm	Argon ion laser	FITC / Cy2 filter
FP-547H	557 nm / 572 nm	Kr/Ar ion laser	Cy3 / TRITC filter
FP-647H	653 nm / 675 nm	Kr/Ar ion laser	Cy5 / APC filter

Our additional dyes can be conjugated on a custom basis

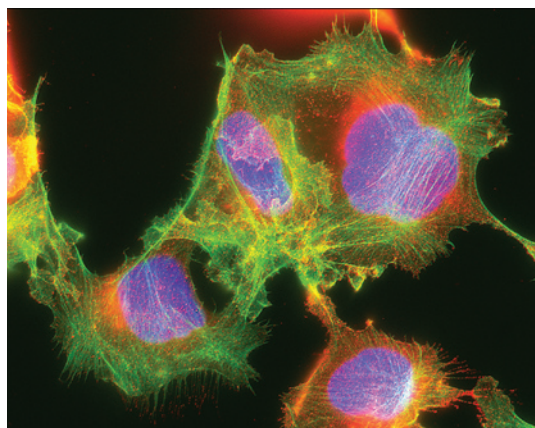
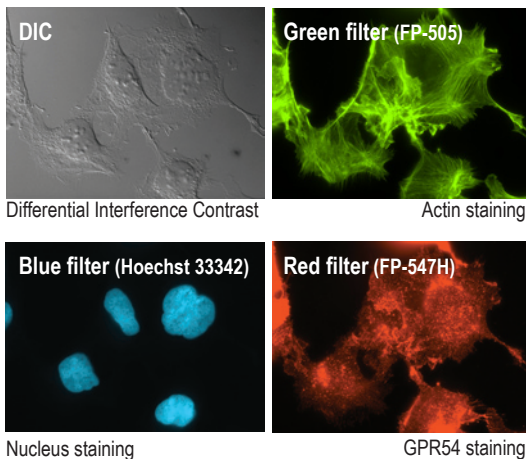


FluoProbes® dyes

- ◆ Activated dyes
- ◆ Labeling kits
- ◆ Labeled streptavidin
- ◆ Custom antibody labeling



Multiplex application - 3 colours



Overlay of blue, green and red pictures

HEK-293-Myc-GPR54 cells stained with :

- anti myc tag (clone 9E10) then FP-547H secondary
- Phalloidin FP-505
- Hoechst 33342.

Secondary FluoProbes® Antibodies

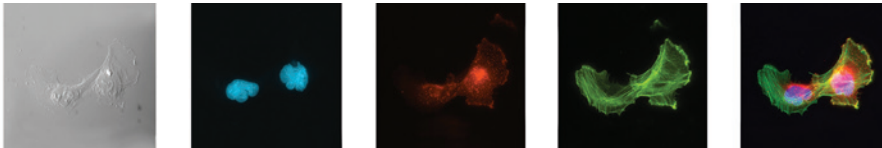
Our antibodies are all supplied in a 1mg/ml concentration and exhibit :

- ♦ the highest affinity and specificity
- ♦ the highest purification rate (affinity purification)

Antibodies are offered in 3 different formats :

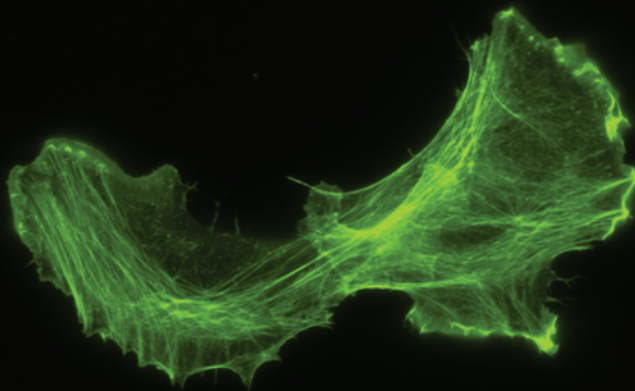
- ♦ **Whole IgG** (not cross-adsorbed) : Fit most immunological techniques and are the most cost effective
- ♦ **F(ab')₂ fragments** : useful for avoiding non specific Fc fixation
- ♦ **Cross-adsorbed antibodies** (minX...Sr Prot) : useful for multiple labeling, avoiding background due to cross-reactivity with Ig or antigen from other species

NB : anti IgG (H+L) antibodies : These antibodies react with both heavy and light chains (Fc and F(ab') fragments) of immunoglobulins. As all immunoglobulins share the same light chains, these antibodies also react with other immunoglobulin classes (IgM, IgA, etc.).



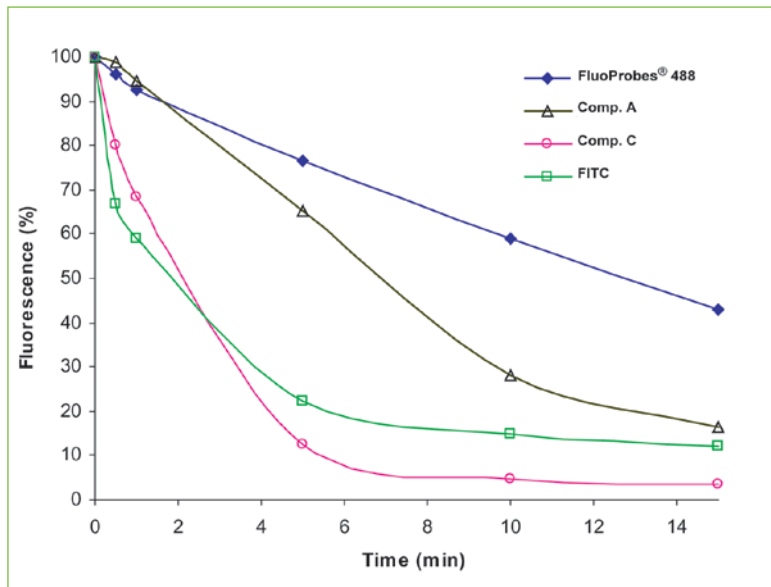
FP-488

FluoProbes® 488

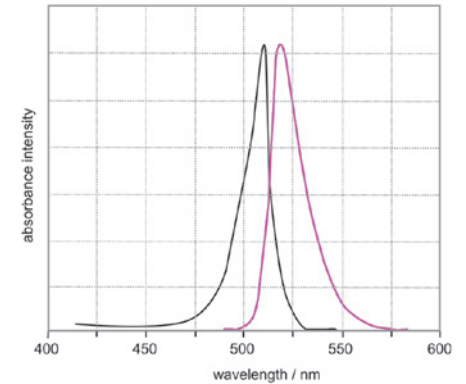


FP-488 FluoProbes® 488

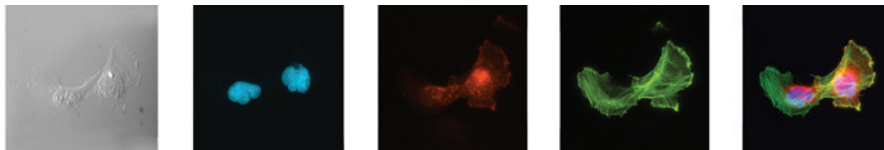
FITC is the most commonly utilised green dye. Its use however is often limited due to high photobleaching and sensitivity to pH.



FP-488 spectrum (Abs/Em : 493/518 nm)



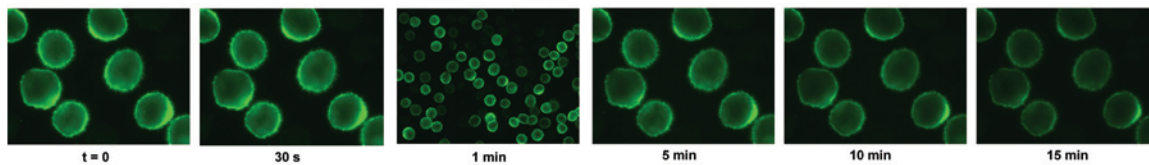
FluoProbes® 488 is much brighter and exhibits excellent photostability. It is not affected by pH changes (from 4 to 10).



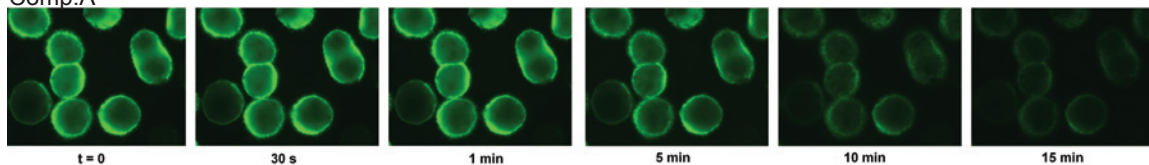
FP-488 FluoProbes® 488

Photostability comparison over 15 minutes with leading brands.

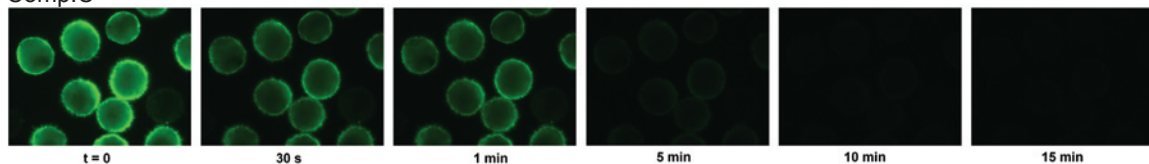
FluoProbes® 488



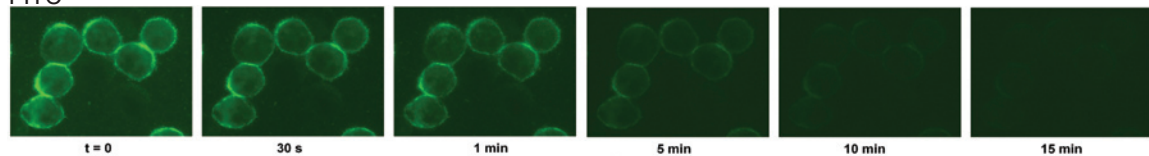
Comp.A



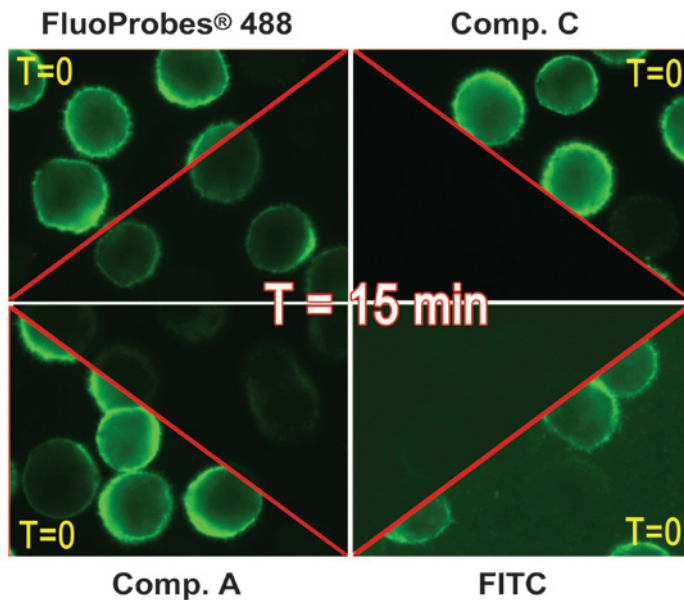
Comp.C



FITC



FP-488 FluoProbes® 488



Photostability

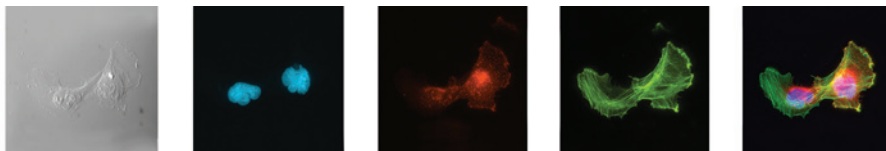
Fluorescent fading, commonly known as photobleaching, is a primary obstacle within fluorescent microscopy. The longer the dye is excited the lower the fluorescence will be.

Reduced fluorescence will cause eyestrain and the light source will often have to be blocked to retain the dyes potential to fluoresce. Increased dye photostability therefore benefits advanced laboratory microscopical imaging systems, such as digital cameras and confocal microscopes.

These instruments have to record fluorescent emission over relatively long time periods, for a range of reasons, including:

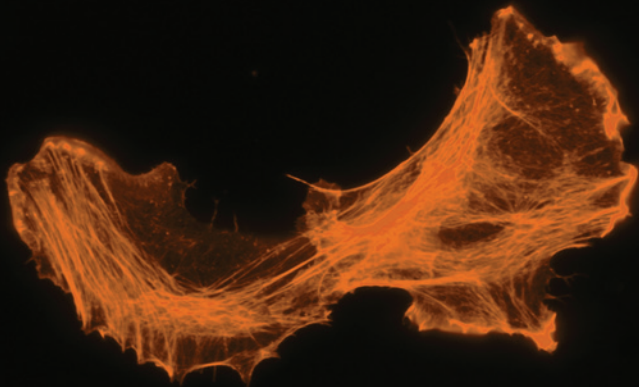
- scanning procedures
- to enhance sensitivity through increased photon access (e.g. rare antigen detection)
- allowing autofluorescence to fade in instances such as with visible light and life-time resolved fluorescence mode.

FluoProbes 488 photostability supports equipment features whereas fading from traditional dyes contradicts the benefits.



FP-547H

FluoProbes® 547H



FP-547H

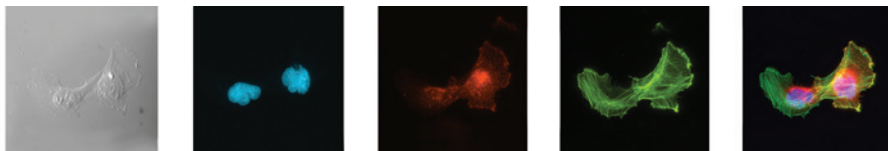
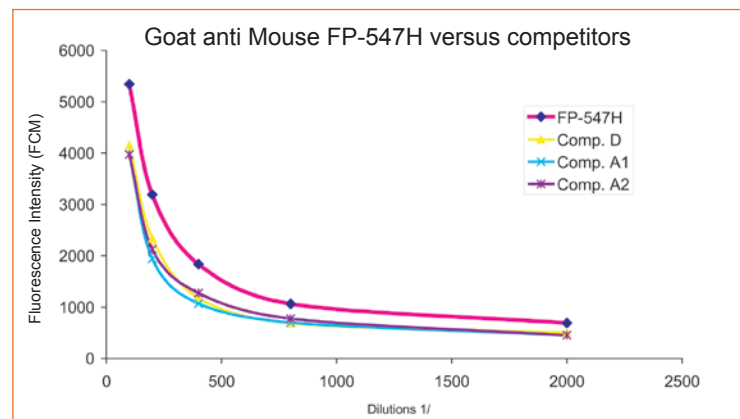
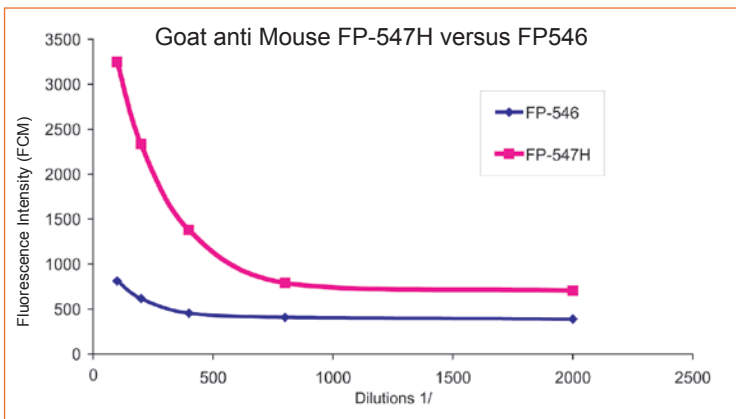
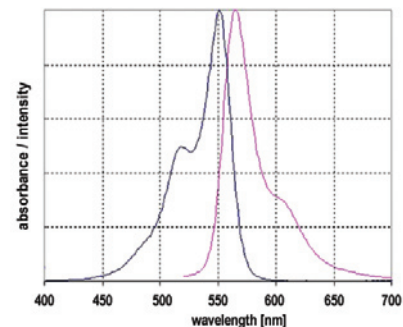
FluoProbes® 547H

new

FP-547H is a new orange dye within the FluoProbes® range.

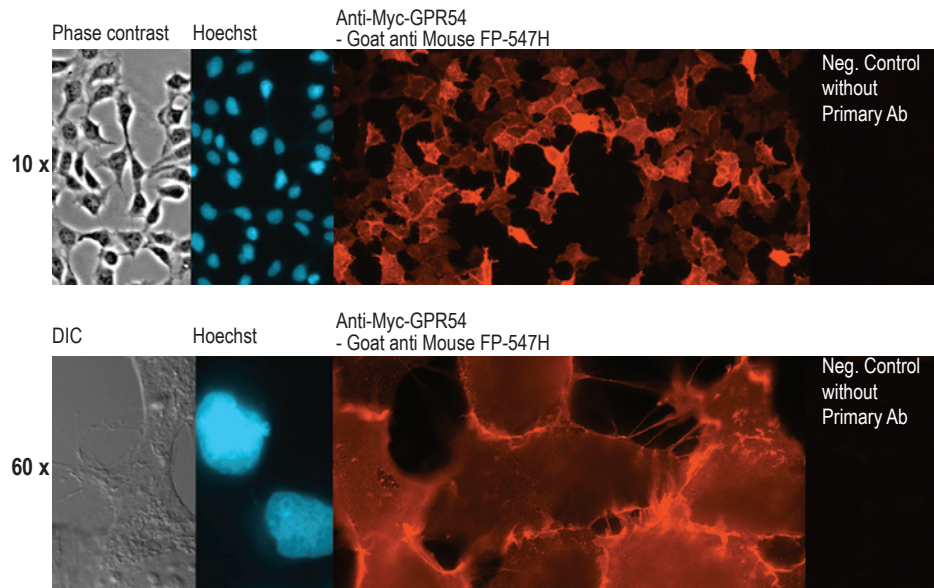
FP-547H is not only superior to our FP-546 - independent 'blind' testing has demonstrated this dye outperforms all comparable commercially available dyes from leading brands in this sector.

FP-547H spectrum (Abs/Em : 557/572 nm)



FP-547H FluoProbes® 547H

FP-547H specificity

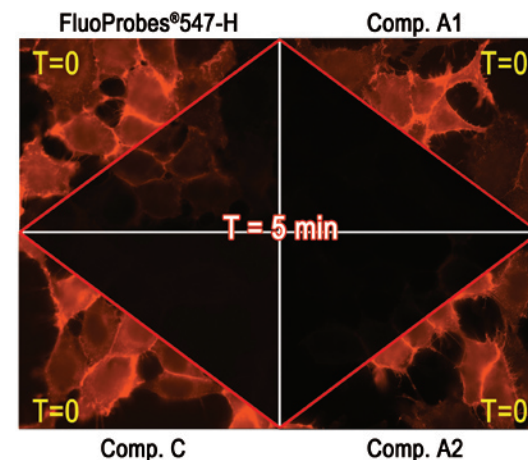


GRP54 receptor staining on HEK-293-Myc-GPR54 cells, by c-Myc antibody clone 9E10 and Goat anti Mouse FP-547H.

Specificity :

GPR54 staining is specific. No background at all in negative control (with no primary antibody)

FP-547H photostability

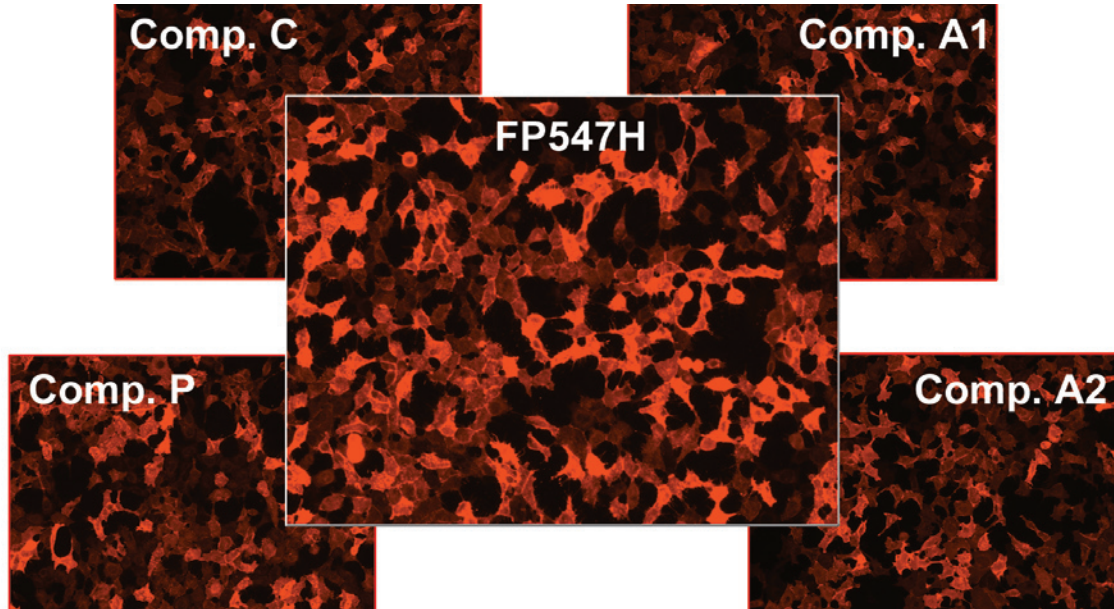


Photostability :

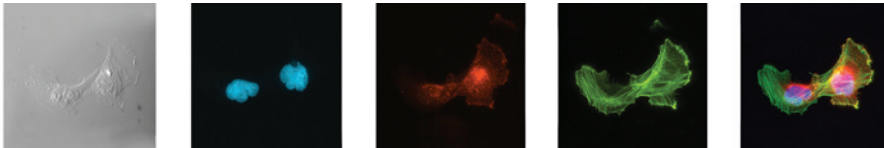
Mounting medium without anti-fading (PBS-glycerol). After 5min., FP-547H is still bright though competitors staining has faded away.

FP-547H FluoProbes® 547H

Unrivalled fluorescence intensity

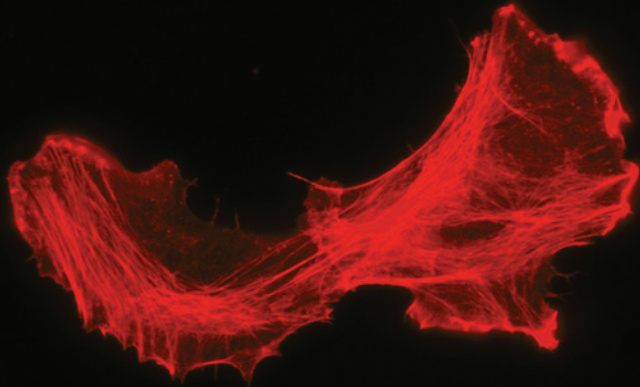


GPR54 staining on HEK-293-Myc-GPR54 cells, by anti c-Myc antibody (clone 9E10) and Goat anti Mouse FP-547H or competitors.



FP-647H

FluoProbes® 647H



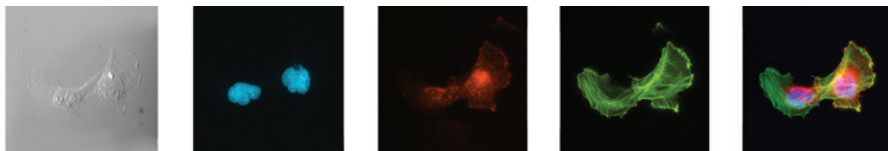
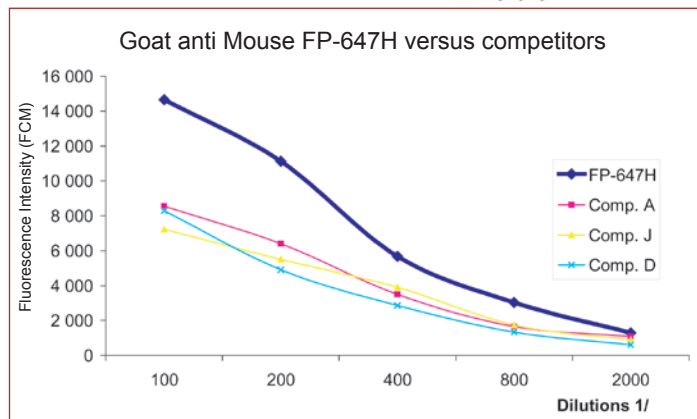
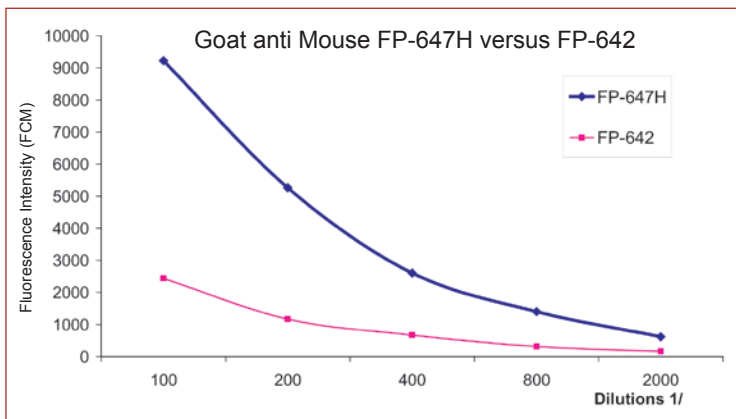
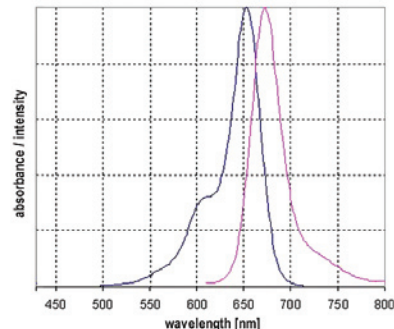
FP-647H FluoProbes® 647H

new

FluoProbes® FP-647H is a significant breakthrough in dye capability in this part of the light spectrum. It exhibits greater fluorescent intensity compared to all leading commercial brands and the spectrum is perfectly geared to light filters used for Cy5 and equivalents.

Independent testing highlights Fluorescence from FP-647H labeled antibodies is significantly higher than equivalent competitor conjugates.

FP-647H spectrum (Abs/Em : 653/675 nm)

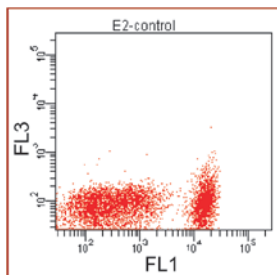


FP-647H FluoProbes® 647H

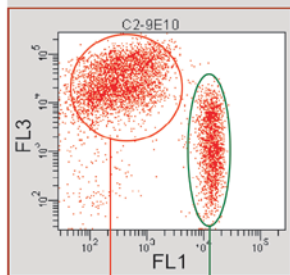
Apoptosis induction by Kp-10 on Jurkat cells and FP-647H use in flow cytometry detection.

- GPR54 receptor (c-Myc tagged) staining with antibody clone 9E10 and Goat Anti Mouse conjugated with FP-647H or competitor (FL3 reading)
- Apoptosis staining with AnnexinV-FluoProbes® 488 (FL1 reading)

Negative control
Jurkat cells (no GPR54)



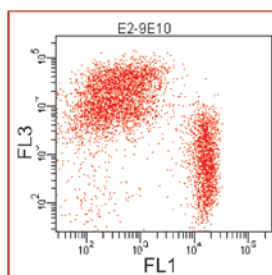
9E10 + GAM : FP-647H
AnnexinV-FP488



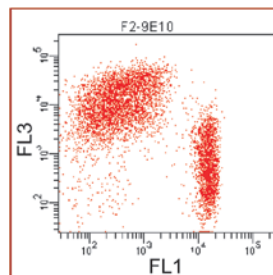
Non-apoptotic cells :
- Low staining with AnnexinV-FP488
- High staining of GPR54 with FP-647H or competitors

Apoptotic cells :
- High staining with AnnexinV-FP488
- Low staining of GPR54 with FP-647H or competitors

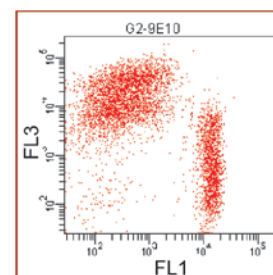
9E10 + GAM : competitor P
AnnexinV-FP488



9E10 + GAM : competitor C
AnnexinV-FP488

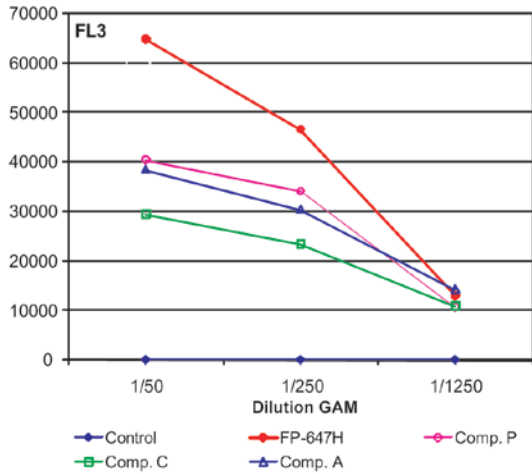


9E10 + GAM : competitor A
AnnexinV-FP488



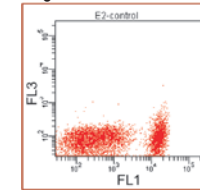
FP-647H FluoProbes® 647H

Apoptosis induction by Kp-10 on Jurkat cells and FP-647H use in flow cytometry detection.

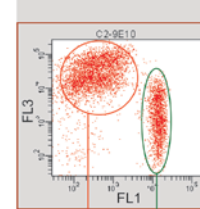


Apoptosis is induced by GPR54 ligand : Kp-10. After 16 hours, apoptotic cells (right-hand corner) have almost lost GPR54 expression though non-apoptotic cells still express the receptor.

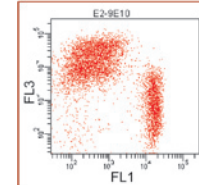
Negative control



FP-647H



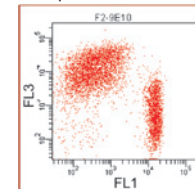
Competitor P



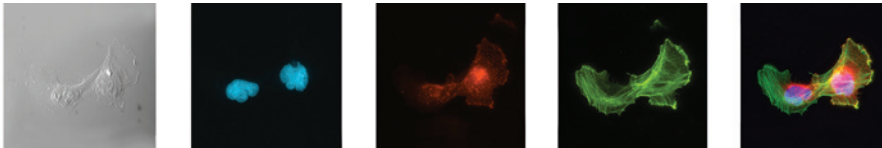
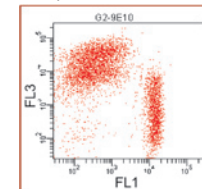
Non-apoptotic cells :
- Low staining with Annexin V-FP488
- High staining of GPR54 with FP-647H or competitors

Apoptotic cells :
- High staining with Annexin V-FP488
- Low staining of GPR54 with FP-647H or competitors

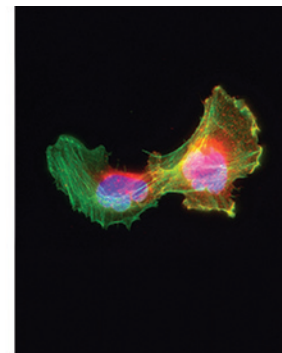
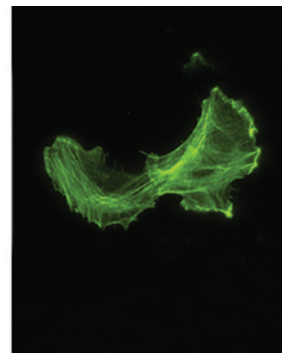
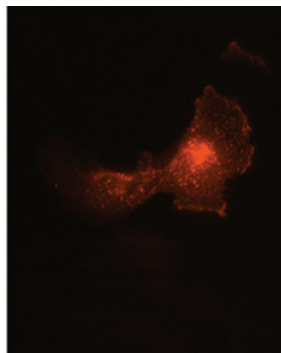
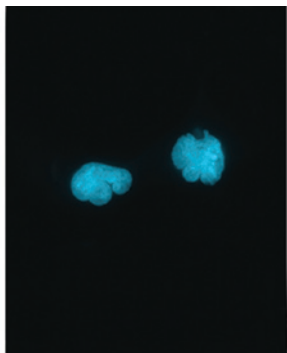
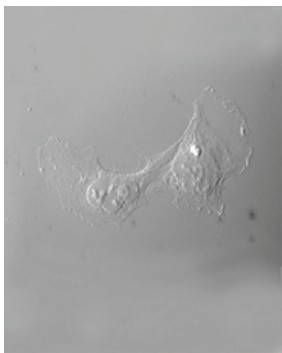
Competitor C



Competitor A



Related products



FluoProbes® labeling kits

FluoProbes® Protein Labeling kits are a convenient, cost effective alternative to commercial labeling kits and 'home-made' labeling.

These kits perform easy and efficient labeling of antibodies, enzymes, or other proteins with molecular weight higher than 25 kD, and are available with our comprehensive range of FluoProbes® labels.

FluoProbes® kits utilise a succinimidyl ester dye to form a covalent bond with proteins. The conjugate is desalted with centrifugal filter columns.

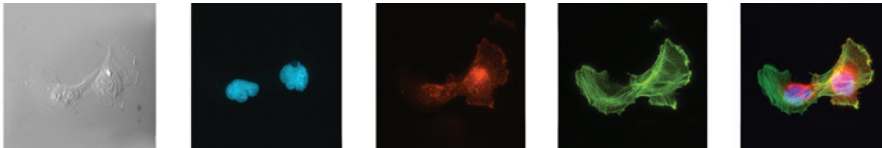
FluoProbes® benefits	Quick facts
♦Faster, simpler procedure	♦60-90min
♦Scalable	♦ for quantities 100µg-1.5mg
♦More economic per labeling	♦Compare price per run
♦Available with > 50 FluoProbes® dyes	♦Available with FP labels & conventional labels
♦Excellent recoveries	♦>90% (Hu IgG / standard protocol)

Kit components

FluoProbes® dye : 5 vials of succinimidyl (SE) dye (50nmol each, except FP488 and FP647N with 0.2 mg each)

- Component a : 2 vials of Solvent for SE-FluoProbes® dye
- Component b : 5 vials of Labeling Buffer reagent (to reconstitute with 1ml water / each)
- Component c : 5 vials of Reaction Stop reagent (to reconstitute with 100µl water / each)
- Component d : 5 Reaction 0.5ml microtubes
- Component e : 10 Centrifuge Filter columns (e1) with 10 wash tubes (e2) and 10 collection tubes (e3)

Dye	λ_{exc} $\lambda_{em. max}$	Cat #
FluoProbes® 415	418/465	FP-BS5600
FluoProbes® 480XXL	500/630	FP-BN1330
FluoProbes® 481XXL	515/650	FP-CV3240
FluoProbes® 488	493/518	FP-BE3750
FluoProbes® 495-X5	494/519	FP-AX1350
FluoProbes® 505-X5	505/530	FP-BU7230
FluoProbes® 520XXL	520/664	FP-CL9920
FluoProbes® 547H	557/572	FP-BZ9600
FluoProbes® 556	548/573	FP-BU7240
FluoProbes® 590-X	580/602	FP-BC2940
FluoProbes® 615	621/641	FP-BN2770
FluoProbes® 647H	653/675	FP-BZ9610
FluoProbes® 647N	644/669	FP-CP8990
FluoProbes® 682	690/709	FP-BE8280
FluoProbes® 782	783/800	FP-CA6070



Streptavidin FluoProbes®

	λ_{exc} λ_{em} max. (nm)	Cat #	Qty
Streptavidin FP-390	390 / 479	FP-BM7700	1 mg
Streptavidin FP-488	493 / 518	FP-BA2221	1 mg
Streptavidin FP-532A	532 / 553	FP-CA5590	1 mg
Streptavidin FP-547H	557 / 572	FP-CA5570	1 mg
Streptavidin FP-565A	563 / 592	FP-CA5610	1 mg
Streptavidin FP-647H	653 / 675	FP-CA5640	1 mg
Streptavidin FP-682	690 / 709	FP-BE8050	1 mg
Streptavidin FP-782	783 / 800	FP-IS1810	1 mg

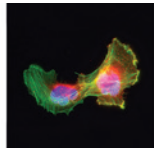
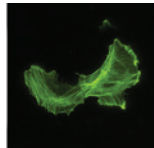
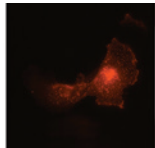
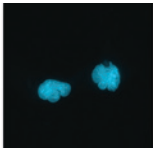
Selection of biotinylated antibodies

Biotinylated antibodies	Cat #	Qty
Goat anti Mouse	UP740460	1 mg
Goat anti Mouse cross-absorbed (minX Bov, Hu, Hrs, Rb, Rat Sr Prot)	UP893680	1 mg
Goat anti Rabbit	UP766530	1 mg
Goat anti Rabbit cross-absorbed (minX Hu, Ms, Rat Sr Prot)	UP668621	1 mg

Control sera and purified immunoglobulins

- ◆ Non immune sera for immunological blocking
- ◆ 0.45 µm filtered
- ◆ 0.09 % sodium azide

Species	Normal sera		Purified Immunoglobulins	
Bovine	UP89243A	10 ml	UP757700	10 mg
Chicken	UP37908A	10 ml		
Donley	UP77719A	10 ml		
Goat	UP379030	10 ml	UP767090	10 mg
Guninea-pig	UP37916A	10 ml		
Hamster	UP28432A	10 ml		
Horse	UP24741A	10 ml		
Human	UP697906	10 ml	UP408603	10 mg
Mouse	UP379120	2 ml	UP386670	5 mg
Rabbit	UP379060	10 ml	UP378410	10 mg
Rat	UP37911A	2 ml	UP443080	5 mg
Sheep	UP697927	10 ml	UP797560	10 mg
Swine	UP379021	10 ml	UP062700	10 mg







Primary antibodies and Prim'Ab search

Over 100 000 antibodies available online with our great Prim'Ab search tool :

<http://www.interchim.com/interchim/PrimAb/search.cfm>

- ♦ **Prim'Ab search offers an easy way to compare antibodies at a glance by displaying key data.** E.g. species reactivity, tested applications, epitope..
- ♦ **Datasheets are available online without the need to register** (click on the "TS" logo).
- ♦ **Pricing and ordering is also possible directly from the search engine by clicking on antibody name** (requires a one time registration).

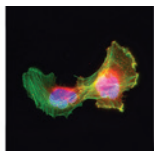
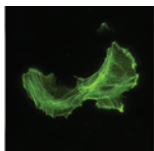
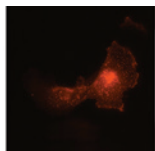
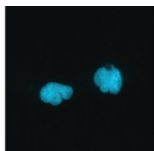
Name	Epitope	Host-IsotypeClone	Species Reactivity	Application	Size
p53 phospho (Ser15)		Polyclonal	Hu, Ms, Rt	WB, IHC, IP	0.05 mg
p53 pSer392		Rb	Hu, Ms, Rt	WB, IP	
p53 pSer392		Ms IgG1	FP32	Hu	WB, IP
p53 pSer392		Ms IgG1	P53S392	Hu, Ms, Rt	WB, E

Click to get cat# pricing information, or order on line

Click to get datasheet (no registration needed)

FluoProbes® antibodies

Host	Specificity	Qty	Cat #		
			FP-488 A=493 / E=518 nm	FP-547H A=557 / E=572 nm	FP-647H A=653 / E=675 nm
Anti-Chicken					
Donkey IgG	Anti-Chicken IgY (IgG) (H+L) (min X Bov,GP,Gt,Hms,Hrs,Hu,Ms,Rat,Rb,Shp Sr Prot)	1mg	FP-SA1110	FP-SB1110	FP-SC1110
Anti-Goat					
Donkey IgG	Anti-Goat IgG (H+L) (min X Ck,GP,Hms,Hrs,Hu,Ms,Rb,Rat Sr Prot)	1mg	FP-SA2110	FP-SB2110	FP-SC2110
Anti-Human					
Goat IgG	Anti-Human IgG (H+L) (min X Bov,Hrs,Ms Sr Prot)	1mg	FP-SA3110	FP-SB3110	FP-SC3110
Anti-Mouse					
Donkey IgG	Anti-Mouse IgG (H+L) (min X Bov,Ck,GP,Gt,Hms,Hrs,Hu,Rat,Rb,Shp Sr Prot)	1mg	FP-SA4110	FP-SB4110	FP-SC4110
Donkey F(ab') ₂	Anti-Mouse IgG (H+L) (min X Bov,Ck,GP,Gt,Hms,Hrs,Hu,Rat,Rb,Shp Sr Prot)	0,5mg	FP-SA4120	FP-SB4120	FP-SC4120
Goat IgG	Anti-Mouse IgG (H+L)	1mg	FP-SA4000	FP-SB4000	FP-SC4000
Goat IgG	Anti-Mouse IgG (H+L) (min X Bov,Hrs,Hu,Rat,Rb Sr Prot)	1mg	FP-SA4010	FP-SB4010	FP-SC4010
Goat IgG	Anti-Mouse IgM, mu Chain Specific (min X Bov,Hu,Hrs Sr Prot)	0,5mg	FP-SA4030	FP-SB4030	FP-SC4030



FluoProbes® antibodies

Host	Specificity	Qty	FP-488	FP-547H	FP-647H
			A=493 / E=518 nm	A=557 / E=572 nm	A=653 / E=675 nm
Anti-Rabbit					
Donkey IgG	Anti-Rabbit IgG (H+L) (min X Bov,Ck,GP,Gt,Hms,Hrs,Hu,Ms,Rat,Shp Sr Prot)	1mg	FP-SA5110	FP-SB5110	FP-SC5110
Donkey F(ab') ₂	Anti-Rabbit IgG (H+L) (min X Bov,Ck,GP,Gt,Hms,Hrs,Hu,Ms,Rat,Shp Sr Prot)	0,5mg	FP-SA5120	FP-SB5120	FP-SC5120
Goat IgG	Anti-Rabbit IgG (H+L)	1mg	FP-SA5000	FP-SB5000	FP-SC5000
Goat IgG	Anti-Rabbit IgG (H+L) (min X Hu,Ms,Rat Sr Prot)	1mg	FP-SA5010	FP-SB5010	FP-SC5010
Anti-Rat					
Donkey IgG	Anti-Rat IgG (H+L)	1mg	FP-SA6110	FP-SB6110	FP-SC6110
Donkey F(ab') ₂	Anti-Rat IgG (H+L) (min X Bov,Ck,GP,Gt,Hms,Hrs,Hu,Ms,Rb,Shp Sr Prot)	0,5mg	FP-SA6120	FP-SB6120	FP-SC6120
Goat IgG	Anti-Rat IgG (H+L)	1mg	FP-SA6000	FP-SB6000	FP-SC6000
Goat IgG	Anti-Rat IgG (H+L) (min X Bov,Hrs,Hu,Ms,Rb Sr Prot)	1mg	FP-SA6010	FP-SB6010	FP-SC6010
Anti-Sheep					
Donkey IgG	Anti-Sheep IgG (H+L) (min X Ck,GP,Hms,Hrs,Hu,Ms,Rb,Rat Sr Prot)	1mg	FP-SA7110	FP-SB7110	FP-SC7110

Antibodies	FP-488 A=493 / E=518 nm	FP-547H A=557 / E= 572 nm	FP-647H A=653 E=675nm
Goat anti Mouse	FP-SA4000	FP-SB4000	FP-SC4000
Goat anti Rabbit	FP-SA5000	FP-SB5000	FP-SC5000
Goat anti Rat	FP-SA6000	FP-SB6000	FP-SC6000

(Full list of antibodies p.22-23)



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