

## Validated Cell Lines and References for NucView™ 488 Caspase-3 Substrate

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### Immortalized cell lines used with NucView™488 Caspase-3 Substrate

Cell line	Species	Cell type	References
293-H	Human	Embryonic kidney	Wu and MacRae 2010
293-T	Human	Embryonic kidney	Li et al. 2008
4T1	Mouse	Mammary tumor	Granot et al. 2011
67NR	Mouse	Mammary carcinoma	Cheng et al. 2009
A172	Human	Glioma	Jeong et al. 2009
A204	Human	Sarcoma	Zhu et al. 2008
A375	Human	Melanoma	Tyciakova et al. 2015
A549	Human	Adenocarcinoma	Yamada et al. 2016
B16F10	Mouse	Melanoma	Ferreira et al. 2011
BeWo	Human	Trophoblast	Angeloni et al. 2009
CCL-134	Human	IPF pulmonary fibroblast	Vuorinen et al. 2007
CCL-190	Human	Pulmonary fibroblast	Vuorinen et al. 2007
CCRF-CEM	Human	Leukemia	Dahlawi et al. 2013, Pedroza et al. 2014
FU-UR-1	Human	Renal cell carcinoma	Kobos et al. 2013
GE11	Mouse	Epithelial	Puigvert et al. 2009
H358	Human	Non-small cell lung cancer	Aronchik et al. 2014
H9c2	Rat	Cardiac myoblast	Ren et al. 2012
HaCaT	Human	Keratinocyte	Paromov et al. 2011
HCE	Human	Corneal epithelial	Soriano-Romani et al. 2015
HCLE	Human	Corneal epithelial	Mankus et al. 2011
HCT116	Human	Colorectal carcinoma	Aftab et al. 2014; Ben Salem et al. 2015
HeLa	Human	Cervical cancer	Angeloni et al. 2009; Antczak et al. 2009; Cen et al. 2008; Verma et al. 2012; Gallerne et al. 2013; Kasim et al. 2013
HepT1	Human	Hepatoblastoma	Eicher et al. 2011; Dewerth et al. 2012
HMEC	Human	Microvascular endothelial	Isherwood et al. 2011
HL-60	Human	Leukemia	Dahlawi et al. 2013
HOS	Human	Osteosarcoma	Brassesso et al. 2013
HT-29	Human	Colorectal adenocarcinoma	Tyciakova et al. 2015
HT-1080	Human	Breast fibrosarcoma	Wang et al. 2010; Zhu et al. 2008
HUH6	Human	Hepatoblastoma	Eicher et al. 2011; Dewerth et al. 2012
INS-IE	Mouse	Pancreatic islet	Shulga et al. 2015
IOBA-NHC	Human	Conjunctival epithelial	Soriano-Romani et al. 2015
Jurkat	Human	T-lymphocyte	Cen et al. 2008; Stewart et al. 2010; Li and Shively 2013
JY	Human	Lymphoblastic leukemia	Berenyi et al. 2011
K562	Human	Myelogenous leukaemia	Sztiller-Sikorska et al. 2009
LLC-PK1	Pig	Kidney epithelial	Queisser 2010

MCF-7	Human	Breast adenocarcinoma	Balijepalli et al. 2010, Renjini et al. 2014; Aghibi et al. 2014
MCF-10A	Human	Breast adenocarcinoma	Koerner et al. 2013
MDA-MB-231	Human	Breast adenocarcinoma	Balijepalli et al. 2010, Aronchik et al. 2011; Koerner et al. 2013; Aronchik et al. 2014; Tyciakova et al. 2015
MDA-MB-468	Human	Breast cancer	Jangmareddy et al. 2013 (NucView & MitoView Kit)
MDCK	Canine	Kidney epithelial	Queisser 2010; Eisenhoffer et al. 2012
MES-SA	Human	Uterine sarcoma	Zhu et al. 2008
MES-SA/DX	Human	Uterine sarcoma	Zhu et al. 2008
MG-63	Human	Osteosarcoma	Brassesco et al. 2013
Min 6	Mouse	Pancreatic insulinoma	Pathak et al. 2008
MOLT-3	Human	Leukemia	Dahlawi et al. 2013
N19	Mouse	Oligodendrocyte	Paez et al. 2007, Smith et al. 2012
NRK	Rat	Kidney epithelial	Stopper et al. 2009
NRK-52E	Rat	Kidney epithelial	Katsoulis et al. 2010
PC-3	Human	Prostate cancer	Bjorkman et al. 2011; Lee et al. 2013; Bjork et al. 2015 (3D culture)
PC-9	Human	Non-small cell lung cancer	Dereli-Korkut et al. 2014
PC12	Rat	Pheochromocytoma	Stopper et al. 2009
R28	Rat	Retinal precursors	Uddin et al. 2015
RD	Human	Rhabdomyosarcoma	Zhu et al. 2008
RINm5F	Rat	Insulinoma	Schmitt et al. 2011
RT112	Human	Bladder carcinoma	King et al. 2016
Saos-2	Human	Osteosarcoma	Lanz et al. 2013
SKBR3	Human	Breast cancer	Jangamreddy et al. 2013 (NucView & MitoView Kit); Tyciakova et al. 2015
SKLMS1	Human	Leiomyosarcoma	Wang et al. 2010; Zhu et al. 2008
SK-OV-3	Human	Ovarian carcinoma	Tyciakova et al. 2015
SMMC-7721	Human	Hepatocarcinoma	Zhou et al. 2014
SP2/0-AG14	Mouse	Hybridoma	Macsik et al. 2015
STHdh	Mouse	Striatal cells	Lu et al. 2013
SW684	Human	Fibrosarcoma	Zhu et al. 2008
SW872	Human	Liposarcoma	Zhu et al. 2008
THP-1	Human	Monocyte	Cestari et al. 2012, Dahlawi et al. 2013
TK6	Human	Splenic lymphoblast	Stopper et al. 2009
U2OS	Human	Osteosarcoma	Benetti and Roizman 2007; Klotz et al. 2012; Lanz et al. 2013
U-251 MG	Human	Glioblastoma	Overmeyer et al. 2008; Liu et al. 2015
U-373 MG	Human	Glioblastoma	Jones and Howl 2011
U-87 MG	Human	Glioblastoma	Tyciakova et al. 2015
U937	Human	Lymphoma	Wang et al. 2013
VCaP	Human	Prostate cancer	Urbinati et al. 2015
WEHI 7.2	Mouse	Lymphoid	Monaco et al. 2011

#### Primary cell types used with NucView™488 Caspase-3 Substrate

Cell type	Species	References
Adipose mesenchymal stem cells	Human	Levy et al. 2014

Alveolar epithelial cells	Mouse	Standiford et al. 2012
Astrocyte	Rat	Angelova et al. 2016
Brain (whole, ex vivo)	Mouse	Shaw et al. 2015
Cortical neurons	Rat	Kamynina et al. 2013
Dendritic cells	Mouse	Brodsky and Medzhitov 2008
Embryonic fibroblast (MEF)	Mouse	Chen et al. 2010; Handa et al. 2011
Embryo tailbud	Chicken	Olivera-Martinez et al. 2012
Gingival fibroblasts	Human	Tanne et al. 2013
Glia	Rat	Kamynina et al. 2013
Hemocytes	Silkworm ( <i>Bombyx mori</i> )	Ishii et al. 2012
Hepatocytes	Rat, Mouse	Zhang et al. 2011; Kawasaki et al. 2014
Hippocampal neurons	Rat	Volosin et al. 2008, Lefort et al. 2012; Kamynina et al. 2013
Idiopathic pulmonary fibrosis fibroblasts	Human	Vuorinen et al. 2007
Immature B cells	Mouse	Claudio et al. 2009
iPS-derived neurons	Human	Yao et al. 2015
Kidney epithelial cells	Mouse	Leuenroth et al. 2007; Schmid et al. 2008
Lung microvascular endothelial cells	Human	Mackay et al. 2010
Macrophages	Mouse	Brodsky and Medzhitov 2008; Ousingsawat et al., 2015; Salpeter et al. 2015
Mammary epithelial cells (3-D cultures)	Mouse	Jechlinger et al. 2009
Neutrophils	Human	Majewska et al. 2012; Amendola et al, 2015
SVZ neural progenitor cells	Rat	Teng et al. 2008
Oligodendrocytes	Mouse	Paez et al. 2009; Guardia Clausi et al. 2012
Oligodendrocyte progenitor cells	Mouse	Cheli et. al. 2015
Oocytes	Bovine, mouse	Kujjo et al. 2012
Pancreatic acinar cells	Mouse	Adhikari et al. 2008
Pancreatic beta cells	Rat	Dufer et al. 2010; Schmitt et al. 2011
Pancreatic islet cells	Mouse	Gier et al. 2009
Peritoneal macrophages	Mouse	Yancey et al. 2010, Hanley et al. 2012
Pollen tubes	Field poppy ( <i>Papaver rhoeas</i> )	Bosch and Franklin-Tong 2007
Retinal pigmented epithelial cells	Human, mouse	Yang et al. 2009; Yang et al. 2011
Skin fibroblasts	Sand cat ( <i>Felis margarita</i> )	Gomez et al. 2008
Skin biopsy cells	Human	De Sica et al. 2016
Stem cells	Human	Choo and Fong 2013
Thymocytes	Mouse	Tribulatti et al. 2007
T-lymphocytes	Human	Valente et al. 2014
Umbilical vein endothelial cells	Human	Geng et al. 2009
Vascular endothelial cells	Rat	Merlet et al. 2013

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### **NucView™ 488 in microscopy**

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