



Rabbit Anti-caspase-8 subunit p18 antibody

SL6463R

Product Name:	caspase-8 subunit p18
Chinese Name:	半胱氨酸蛋白酶8抗体
Alias:	Caspase-8 subunit p18; ALPS2B; Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 12 protein; Apoptosis related cysteine peptidase; Apoptotic cysteine protease; Apoptotic protease Mch 5; Apoptotic protease Mch-5; Apoptotic protease Mch5; CAP 4; CAP4; CASP 8; CASP-8; CASP8; CASP8_HUMAN; Caspase 8; Caspase 8 apoptosis related cysteine peptidase; Caspase-8 subunit p18; Caspase8; CED 3; FADD homologous ICE/CED 3 like protease; FADD Homologous ICE/CED3 Like Protease; FADD Like ICE; FADD-homologous ICE/CED-3-like protease; FADD-like ICE; FLICE; FLJ17672; ICE like apoptotic protease 5; ICE-like apoptotic protease 5; MACH alpha 1/2/3 protein; MACH; MACH beta 1/2/3/4 protein; MCH 5; MCH5; MGC78473; MORT1 associated CED 3 homolog; MORT1 associated CED3 homolog; MORT1-associated CED-3 homolog; OTTHUMP00000163717; OTTHUMP00000163720; OTTHUMP00000163724; OTTHUMP00000163725; OTTHUMP00000165062; OTTHUMP00000165063; OTTHUMP00000165064; OTTHUMP00000206552; OTTHUMP00000206582
文献引用 PubMed :	<p>Specific References(5) SL6463R has been referenced in 5 publications.</p> <p>[IF=3.07]Meneses, Carla, et al. "The angiotensin-(1-7)/Mas axis reduces myonuclear apoptosis during recovery from angiotensin II-induced skeletal muscle atrophy in mice." Pflügers Archiv-European Journal of Physiology (2014): 1-10.WB;Mouse. PubMed:25292283</p> <p>[IF=2.90]Shan, Ming, and Ting-Jun Fan. "Cytotoxicity of carteolol to human corneal epithelial cells by inducing apoptosis via triggering the Bcl-2 family protein-mediated mitochondrial pro-apoptotic pathway." Toxicology in Vitro (2016).ELISA;Human. PubMed:27216471</p> <p>[IF=1.72]Zhao, Jun, et al. "The cytotoxic and pro-apoptotic effects of phenylephrine on</p>

	<p>corneal stromal cells via a mitochondrion-dependent pathway both in vitro and in vivo." Experimental and Toxicologic Pathology (2016).ELISA;Human.</p> <p>PubMed:27344612</p> <p>[IF=2.13]Cetintas, Vildan Bozok, et al. "Effects of flavopiridol on critical regulation pathways of CD133high/CD44high lung cancer stem cells." Medicine 95.43 (2016): e5150.IF(ICC);Mouse.</p> <p>PubMed:27787370</p> <p>[IF=2.13]Cetintas, Vildan Bozok, et al. "Effects of flavopiridol on critical regulation pathways of CD133high/CD44high lung cancer stem cells." Medicine 95.43 (2016): e5150.IF(ICC);Mouse.</p> <p>PubMed:27787370</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	<p>WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestIF=1:50-200 (Paraffin sections need antigen repair)</p> <p>not yet tested in other applications.</p> <p>optimal dilutions/concentrations should be determined by the end user.</p>
Molecular weight:	18/55kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human caspase-8 subunit p18:188-280/479
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>Initiator caspases, which include caspase-8, activate effector caspases by cleaving inactive forms of effector caspases. In the activation cascade responsible for apoptosis induced by TNFRSF1A and mediated by TNFRSF6/FAS, caspase-8 is the most upstream protease. Caspase-8 binds to adaptor molecule FADD, forming an aggregate referred to as death-inducing signaling complex (DISC), which activates caspase-8. The activated protein is released from the complex and further activates downstream apoptotic proteases. Caspase-8, which is a heterodimer consisting of two subunits (p18 and p10), is widely expressed, but is detected at highest levels in peripheral blood leukocytes (PBLs), thymus, liver and spleen. Defects in CASP8, the gene encoding for caspase-8,</p>

may cause CASP8D (caspase-8 deficiency disorder), which is characterized by splenomegaly and CD95-induced apoptosis of PBLs, and may lead to immunodeficiency due to defects in T lymphocyte, NK cell and B lymphocyte activation.

Subunit:

Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a 18 kDa (p18) and a 10 kDa (p10) subunit. Interacts with FADD, CFLAR and PEA15. Isoform 9 interacts at the endoplasmic reticulum with a complex containing BCAP31, BAP29, BCL2 and/or BCL2L1. Interacts with TNFAIP8L2.

Subcellular Location:

Cytoplasm.

Tissue Specificity:

Isoform 1, isoform 5 and isoform 7 are expressed in a wide variety of tissues. Highest expression in peripheral blood leukocytes, spleen, thymus and liver. Barely detectable in brain, testis and skeletal muscle.

Similarity:

Belongs to the peptidase C14A family.
Contains 2 DED (death effector) domains.

SWISS:

Q14790

Gene ID:

841

Database links:

[Entrez Gene: 841](#)Human

[Entrez Gene: 12370](#)Mouse

[Entrez Gene: 54474](#)Rat

[Entrez Gene: 64044](#)Rat

[Omim: 601763](#)Human

[SwissProt: Q14790](#)Human

[SwissProt: O89110](#)Mouse

[SwissProt: Q9JHX4](#)Rat

[Unigene: 599762](#)Human

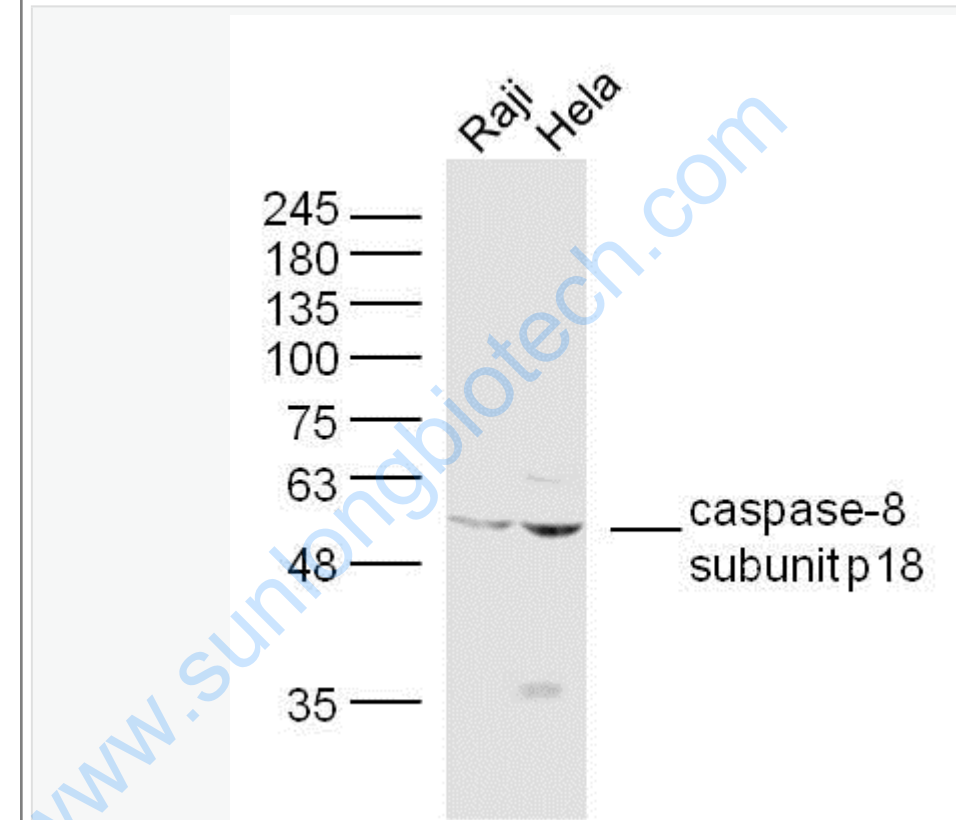
[Unigene: 655983](#) Human

[Unigene: 336851](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

Raji Cell (Human) Lysate at 40 ug

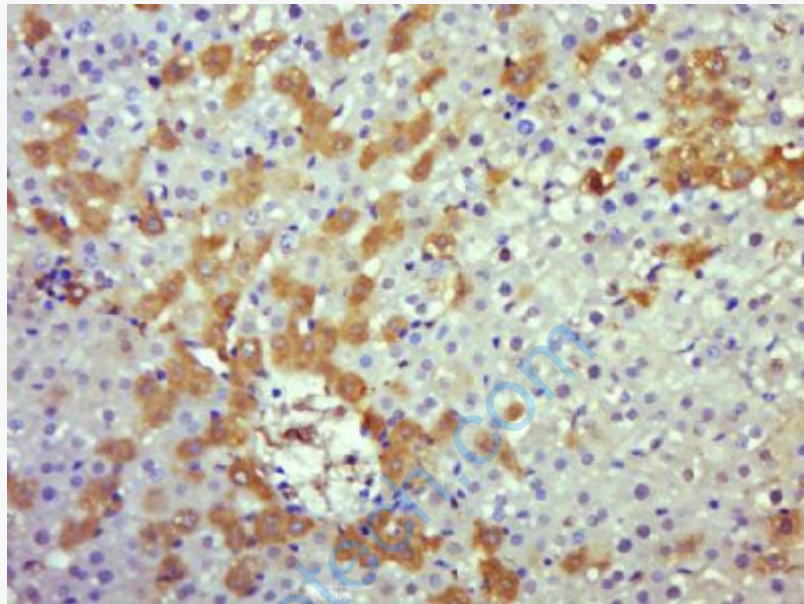
Hela Cell (Human) Lysate at 40 ug

Primary: Anti-caspase-8 subunit p18 (SL6463R) at 1/300 dilution

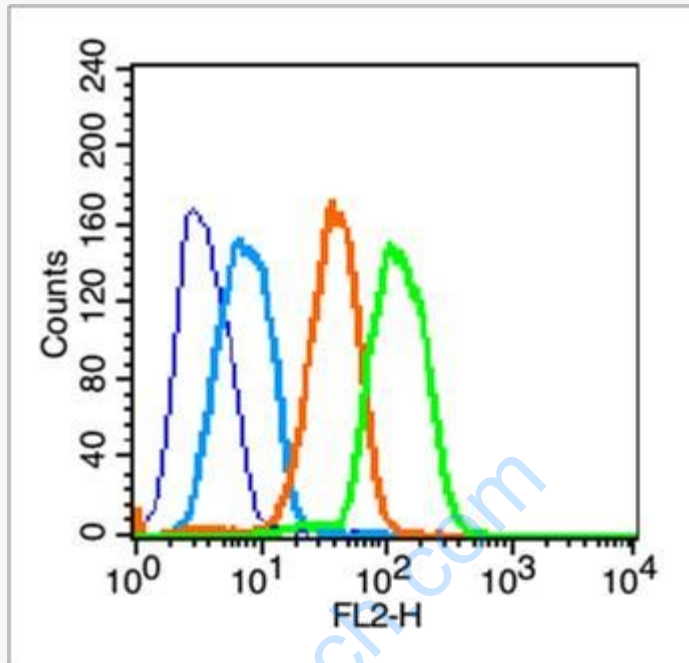
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 18/55 kD

Observed band size: 55 kD



Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (caspase-8 subunit p18) Polyclonal Antibody, Unconjugated (SL6463R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Blank control (blue line): U251 (fixed with 70% ethanol overnight at 4°C and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature).

Primary Antibody (green line): Rabbit Anti-caspase-8 subunit p18 antibody (SL6463R), Dilution: 1 µg / 10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE, Dilution: 1 µg / test.