




## Rabbit Anti-Caspase 8 antibody

SL0052R

<b>Product Name:</b>	Caspase 8
<b>Chinese Name:</b>	半胱氨酸蛋白酶8抗体
<b>Alias:</b>	Caspase-8 p10; Caspase-8 subunit p10; 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; Caspase-8; Caspase8; CASP8; CASP8_HUMAN; Caspase8; Caspase 8 apoptosis related cysteine peptidase; Caspase8; CED 3; FADD homologous ICE/CED 3 like protease; FADD Homologous ICE/CED3 Like Protease; FADD Like ICE antibody 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 antibody MACH beta 1/2/3/4 protein antibody MCH 5; MCH5.
<b>文献引用</b> 	<p><b>Specific References(9)</b> SL0052R has been referenced in 9 publications.</p> <p><b>[IF=3.95]</b>Wang, Gang, et al. "Inhibition of hydrogen sulfide synthesis provides protection for severe acute pancreatitis rats via apoptosis pathway." Apoptosis (2013): 1-15.<b>IHC-P;Rat.</b> <a href="#">PubMed:23054084</a></p> <p><b>[IF=2.33]</b>Wu, Chun-Yan, et al. "PCSK9 siRNA Inhibits HUVEC Apoptosis Induced by ox-LDL via Bel/Bax-Caspase9-Caspase3 Pathway." Molecular and Cellular Biochemistry 359.1-2 (2012): 347-358.<b>WB;Human.</b> <a href="#">PubMed:21847580</a></p> <p><b>[IF=3.53]</b>Fang C, Zhang J, Qi D, Fan X, Luo J, et al. (2014) Evodiamine Induces G2/M Arrest and Apoptosis via Mitochondrial and Endoplasmic Reticulum Pathways in H446 and H1688 Human Small-Cell Lung Cancer Cells. PLoS ONE 9(12): e115204. <b>WB;Human.</b></p>

	<p style="text-align: center;"><a href="#">PubMed:25506932</a></p> <p><b>[IF=2.44]</b> Tulsulkar, Jatin, et al. "Ginkgo biloba Extract Prevents Female Mice from Ischemic Brain Damage and the Mechanism Is Independent of the HO1/Wnt Pathway." <i>Translational Stroke Research</i> (2015): 1-12. <b>other;</b></p>
	<p style="text-align: center;"><a href="#">PubMed:26573919</a></p> <p><b>[IF=3.40]</b> Gao, Hui, et al. "Hispidulin induces mitochondrial apoptosis in acute myeloid leukemia cells by targeting extracellular matrix metalloproteinase inducer." <i>American Journal of Translational Research</i> 8.2 (2016): 1115-1132. <b>WB;Human.</b></p>
	<p style="text-align: center;"><a href="#">PubMed:27158398</a></p> <p><b>[IF=2.37]</b> Akinrinde, A. S., et al. "Alterations in blood pressure, antioxidant status and caspase 8 expression in cobalt chloride-induced cardio-renal dysfunction are reversed by Ocimum gratissimum and gallic acid in Wistar rats." <i>Journal of Trace Elements in Medicine and Biology</i> 36 (2016): 27-37. <b>Rat.</b></p>
	<p style="text-align: center;"><a href="#">PubMed:27259349</a></p> <p><b>[IF=3.23]</b> Daverey, Amita, and Sandeep K. Agrawal. "Curcumin alleviates oxidative stress and mitochondrial dysfunction in astrocytes." <i>Neuroscience</i> 333 (2016): 92-103. <b>WB;Human.</b></p>
	<p style="text-align: center;"><a href="#">PubMed:27423629</a></p> <p><b>[IF=3.85]</b> Wang, Yandi, et al. "Regulation of steroid hormones and energy status with cysteamine and its effect on spermatogenesis." <i>Toxicology and Applied Pharmacology</i> (2016). <b>IHC-P;Sheep.</b></p>
	<p style="text-align: center;"><a href="#">PubMed:27815134</a></p> <p><b>[IF=5.23]</b> Zhao, Yong, et al. "Hydrogen Sulfide and/or Ammonia Reduces Spermatozoa Motility through AMPK/AKT Related Pathways." <i>Scientific Reports</i> 6 (2016): 37884. <b>WB;Pig.</b></p>
	<p style="text-align: center;"><a href="#">PubMed:27883089</a></p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Sheep,
<b>Applications:</b>	ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 Flow-Cyt=1µg/Test IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	12/55kDa
<b>Cellular localization:</b>	cytoplasmic

<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from rat Caspase-8 subunit p10:411-482/482
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>Caspases are cysteine proteases, expressed as inactive precursors, that mediate apoptosis by proteolysis of specific substrates. Caspases have the ability to cleave after aspartic acid residues. There are two classes of caspases involved in apoptosis; initiators (activation by receptor cluster) and effectors (activation by mitochondrial permeability transition). Proapoptotic signals autocatalytically activate initiator caspases, such as Caspase 8 and Caspase 9. Activated initiator caspases then process effector caspases, such as Caspase 3 and Caspase 7, which in turn cause cell collapse.</p> <p><b>Function:</b> Most upstream protease of the activation cascade of caspases responsible for the TNFRSF6/FAS mediated and TNFRSF1A induced cell death. Binding to the adapter molecule FADD recruits it to either receptor. The resulting aggregate called death-inducing signaling complex (DISC) performs CASP8 proteolytic activation. The active dimeric enzyme is then liberated from the DISC and free to activate downstream apoptotic proteases. Proteolytic fragments of the N-terminal propeptide (termed CAP3, CAP5 and CAP6) are likely retained in the DISC. Cleaves and activates CASP3, CASP4, CASP6, CASP7, CASP9 and CASP10. May participate in the GZMB apoptotic pathways. Cleaves ADPRT. Hydrolyzes the small-molecule substrate, Ac-Asp-Glu-Val-Asp- -AMC. Likely target for the cowpox virus CRMA death inhibitory protein. Isoform 5, isoform 6, isoform 7 and isoform 8 lack the catalytic site and may interfere with the pro-apoptotic activity of the complex.</p> <p><b>Subunit:</b> 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.</p> <p><b>Subcellular Location:</b> Cytoplasm.</p> <p><b>Tissue Specificity:</b> 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.</p>

**DISEASE:**

Defects in CASP8 are the cause of caspase-8 deficiency (CASP8D) [MIM:607271]. CASP8D is a disorder resembling autoimmune lymphoproliferative syndrome (ALPS). It is characterized by lymphadenopathy, splenomegaly, and defective CD95-induced apoptosis of peripheral blood lymphocytes (PBLs). It leads to defects in activation of T-lymphocytes, B-lymphocytes, and natural killer cells leading to immunodeficiency characterized by recurrent sinopulmonary and herpes simplex virus infections and poor responses to immunization.

**Similarity:**

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

**SWISS:**

O89110

**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

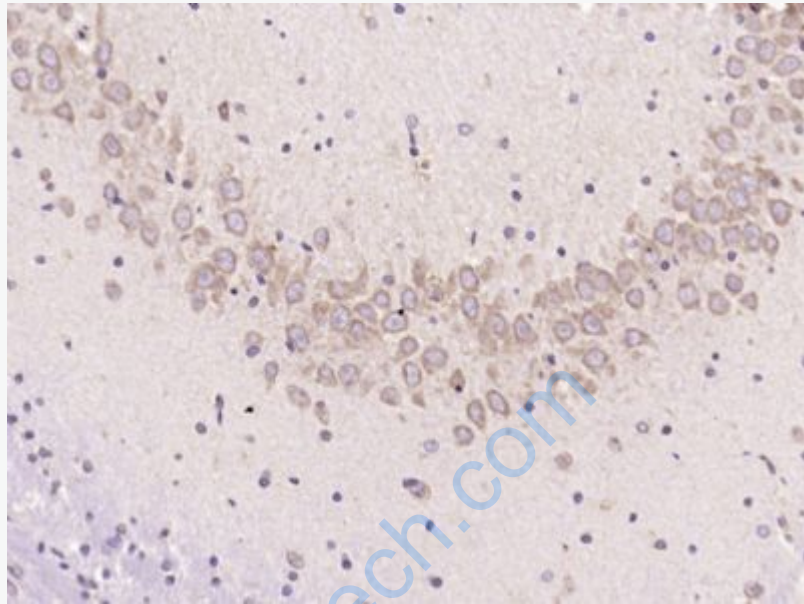
[Unigene: 655983](#) Human

[Unigene: 336851](#) Mouse

**Important Note:**

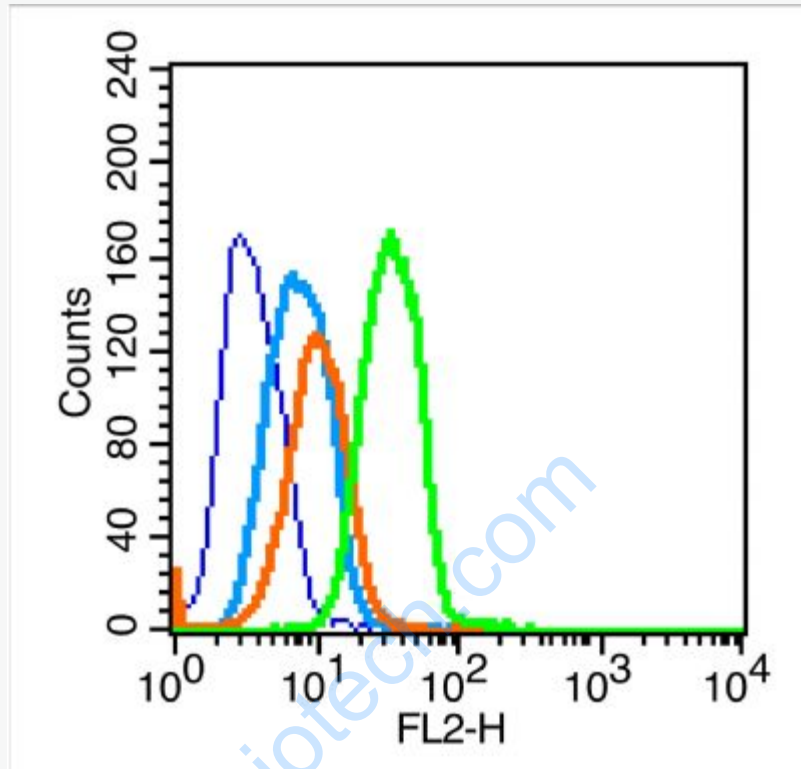
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**Picture:**

Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (Caspase 8) Polyclonal Antibody, Unconjugated (SL0052R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.



Blank control (blue line): U251 (blue).

Primary Antibody (green line): Rabbit Anti-caspase-8 antibody (SL0052R)

Dilution:  $1\mu\text{g} / 10^6$  cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE

Dilution:  $1\mu\text{g} / \text{test}$ .

#### Protocol

The cells were fixed with 70% ethanol overnight at  $4^{\circ}\text{C}$  and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody

	used for 40 min at room temperature. Acquisition of 20,000 events was performed.
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