SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

# Rabbit Anti-Caspase-8 subunit p18 antibody

SL4683R

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| **Product Name:** | Caspase-8 subunit p18 |
| **Chinese Name:** | 半胱氨酸蛋白酶8抗体 |
| **Alias:** | 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. |
| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Rat,Dog,Pig, |
| **Applications:** | IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg/TestICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 18/55kDakDa |
| **Cellular localization:** | cytoplasmic |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | KLH conjugated synthetic peptide derived from human Caspase-8 subunit p18:201-300/4496 |
| **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 |

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| | antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **PubMed:** | PubMed |
| **Product Detail:** | 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.<br><br>**Function:**<br>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.<br><br>**Subunit:**<br>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.<br><br>**Subcellular Location:**<br>Cytoplasm.<br><br>**Tissue Specificity:**<br>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.<br><br>**DISEASE:**<br>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:**
Q14790

**Gene ID:**
841

**Database links:**

Entrez Gene: 841Human

Entrez Gene: 54474Rat

Entrez Gene: 64044Rat

Omim: 601763Human

SwissProt: Q14790Human

SwissProt: Q9JHX4Rat

Unigene: 599762Human

Unigene: 655983Human

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

半胱氨酸蛋白酶-8，在凋亡执行阶段起中心作用。

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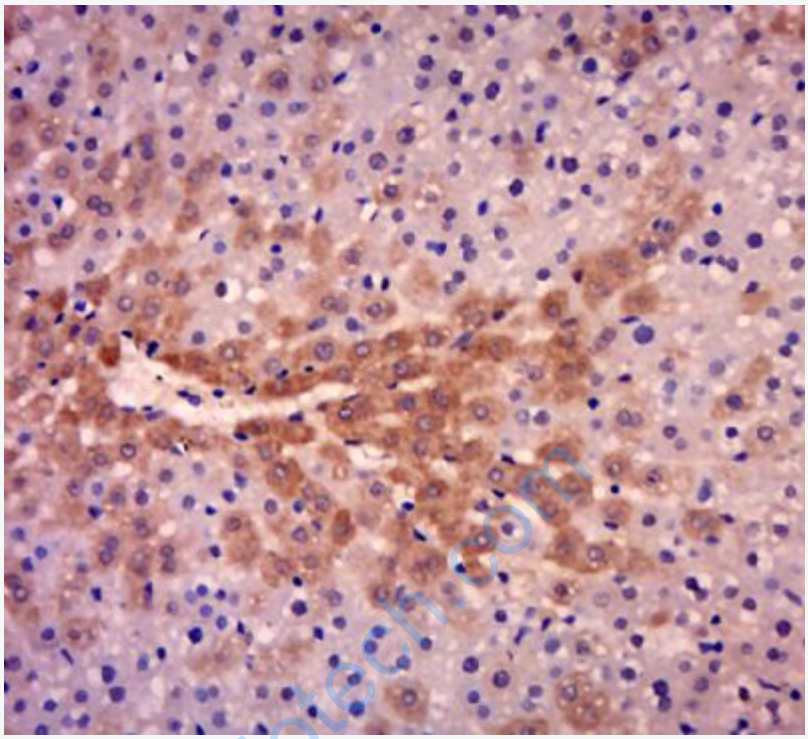
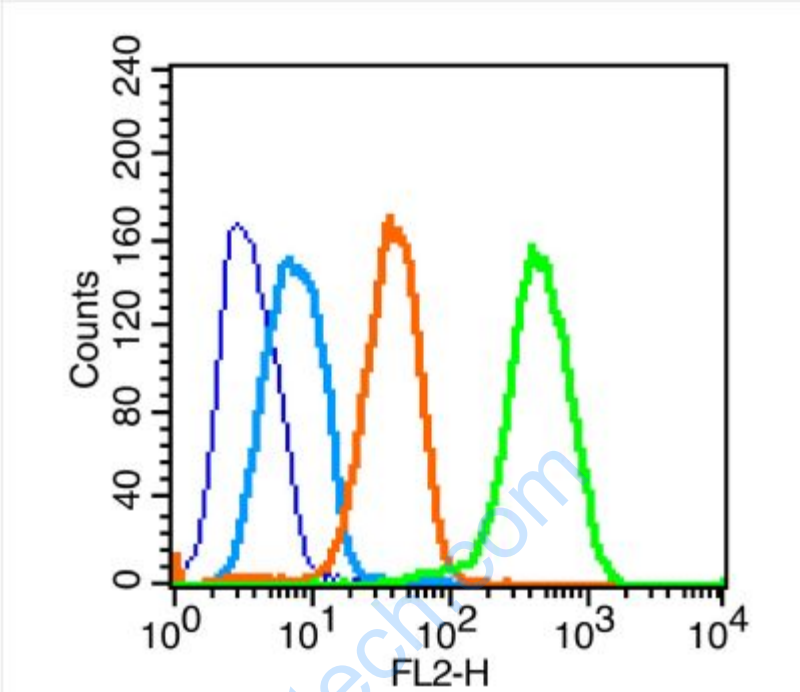
| **Picture:** |  <br>Paraformaldehyde-fixed, paraffin embedded (rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Caspase-8 subunit p18) Polyclonal Antibody, Unconjugated (SL4683R) 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℃ and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature).

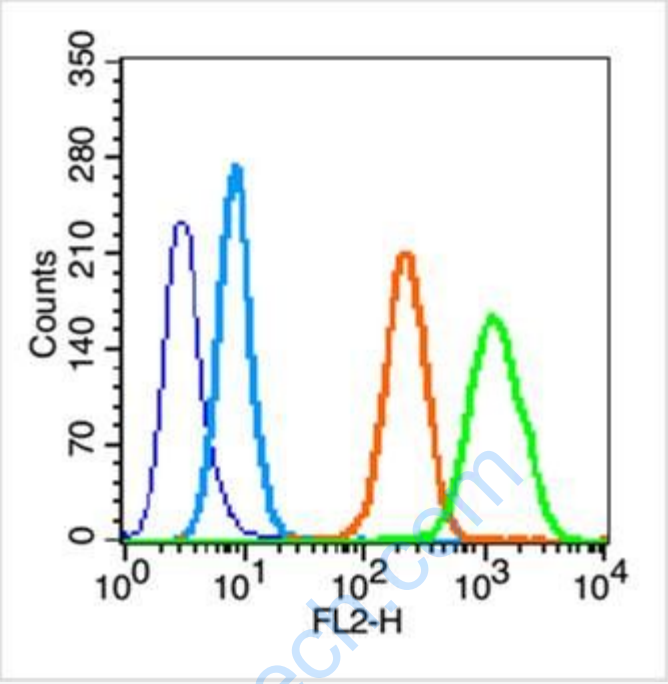
Primary Antibody (green line): Rabbit Anti-caspase-8 antibody (SL4683R)

Dilution: 0.2 µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

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

Dilution: 1µg /test.




Blank control (blue line): Hep G2 (fixed with 70% ethanol (Overnight at 4℃) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature).

Primary Antibody (green line): Rabbit Anti-caspase-8 antibody (SL4683R),Dilution: 0.2µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

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