SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-caspase-8 subunit p18 antibody

Catalog Number: SL6463R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	caspase-8 subunit p18
Immunogen:	KLH conjugated synthetic peptide derived from human caspase-8 subunit p18: 188-280/479
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 Flow-Cyt=1μg /Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Rat, (predicted: Mouse, Dog, Pig, Cow, Horse)
Predicted MW.:	18/55kDa
Subcellular Location:	cytoplasmic
Background:	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 actived 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

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	in CASP8, the gene encoding for caspase-8, 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. **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

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[VALIDATION IMAGES]

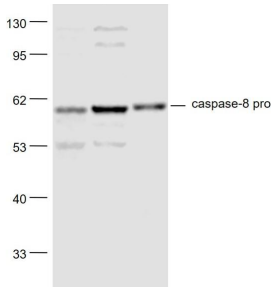


Figure 1. Sample: Jurkat(Human) Cell Lysate at 30 ug K562(Human) Cell Lysate at 30 ug U87MG(Human) Cell Lysate at 30 ug Primary: Anti-caspase-8 subunit p18 (SL6463R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55/18 kD Observed band size: 57 kD

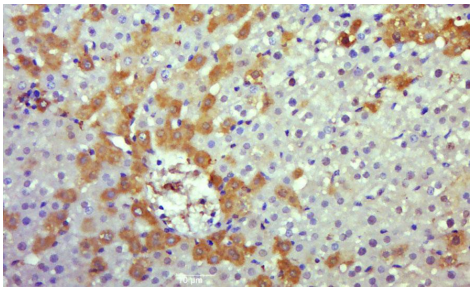


Figure 2. Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (caspase-8 subunit 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

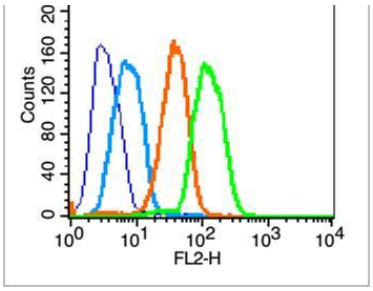


Figure 3. Blank control (blue line): U251 (fixed with 70% ethanol overnight at 4°C and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature). Primary Antibody (green line): Rabbit Anti-caspase-8 subunit p18 antibody (SL6463R),Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE,Dilution: 1µg /test

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