SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Caspase-12 antibody

Catalog Number: SL23014R

FOR RESEARCH USE ONLY

[DATASHEET]

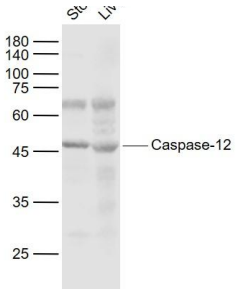
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Caspase-12
Immunogen:	KLH conjugated synthetic peptide derived from human Caspase-12: 21-100/341
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped 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 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse
Predicted MW.:	38kDa
Subcellular Location:	cytoplasmic
Background:	Caspases are cysteine proteases that cleave C-terminal aspartic acid residues on their substrate molecules. This gene is most highly related to members of the ICE subfamily of caspases that process inflammatory cytokines. In rodents, the homolog of this gene mediates apoptosis in response to endoplasmic reticulum stress. However, in humans this gene contains a polymorphism for the presence or absence of a premature stop codon. The majority of human individuals have the premature stop codon and produce a truncated non-functional protein. The read-through codon occurs primarily in individuals of African descent and carriers have endotoxin hypo-responsiveness and an increased susceptibility to severe sepsis. Several alternatively spliced transcript variants have been noted for this gene. [provided by RefSeq, Feb 2011]

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

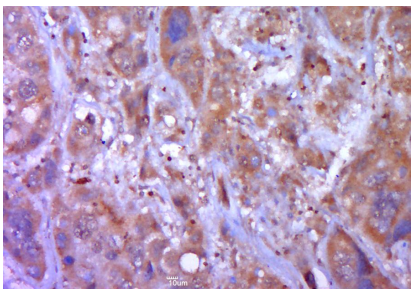
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	Function: Has no protease activity. May reduce cytokine release in response to bacterial lipopolysaccharide during infections. Reduces activation of NF-kappa-B in response to TNF. **Tissue Specificity:** Detected in heart, kidney, liver, lung, pancreas, small intestine, spleen, stomach, thymus and testis. **Similarity :** Belongs to the peptidase C14A family. **Similarity:** Belongs to the peptidase C14A family. Contains 1 CARD domain. **Database links:** **Entrez Gene:** 100506742 Human **SwissProt:** Q6UXS9 Human **Unigene:** 476989 Human CASPASE-12 is a member of the caspase family and is a pro-apoptotic factor present on the endoplasmic reticulum. In the early stage of endoplasmic reticulum stress, cells can be protected through increased expression of GRP (glucose-regulated protein, GRP); CASPASE-12 is a key mediator of endoplasmic reticulum cells, and caspase-12 is also an inhibitor of caspase-1.

[VALIDATION IMAGES]



Sample:
Lane 1: Stomach (Mouse) Lysate at 40 ug
Lane 2: Liver (Mouse) Lysate at 40 ug
Primary: Anti-Caspase-12 (SL23014R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 45/52 kD
Observed band size: 46 kD



Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); 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-12) Polyclonal Antibody, Unconjugated (SL23014R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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