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Rabbit Anti-Caspase 4 antibody

SL20494R

Product Name:	Caspase 4
Chinese Name:	半胱胺酸蛋白酶蛋白-4抗体
Alias:	Caspase-4 subunit 2; Caspase-4 subunit p10; Apoptosis related cysteine peptidase; Apoptotic cysteine protease Mih1/TX; CASP 4; CASP 4; CASP-4; CASP4; CASP4_HUMAN; CASP4_MOUSE; Caspase 4 apoptosis related cysteine peptidase; Caspase-4 subunit 2; Caspase4; ICE(rel) II; ICE(rel)-II; ICE(rel)II; ICEREL II; ICERELII; ICH 2; ICH 2 protease; ICH2; Mih1/TX; Mih1/TX; Protease ICH-2; Protease TX; TX; TX protease.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	20/33kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse Caspase-4 subunit p10:251-350/373
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
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:	Caspase 4 is a 377 amino acid protein (43 kDa) that belongs to the Ced3/ICE family of cystein proteases. Caspase 4 is an "upstream" caspase with a long prodomain. It

undergoes a cleavage upon activation, leading to p20 and p10 subunits which have 67% homology to mature Caspase 1 over the equivalent coding sequences. Caspase 4 is capable of cleaving itself and the p30 Caspase 1 precursor, and of inducing apoptosis in transfected insect or COS cells. In high concentrations, it can also cleave the nuclear DNA enzyme PARP but the biological relevance of this cleavage is unclear. Caspase 4 mRNA is found in most tissues examined with the exception of the brain. Highest expression is found in spleen and lung, with moderate expression in heart and liver. Low expression is observed with skeletal muscle, kidney, and testis.

Function:
Involved in the activation cascade of caspases responsible for apoptosis execution. Cleaves caspase-1.

Subunit:
Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a small and a large subunit.

Tissue Specificity:
Widely expressed, with highest levels in spleen and lung. Moderate expression in heart and liver, low expression in skeletal muscle, kidney and testis. Not found in the brain.

Post-translational modifications:
The two subunits are derived from the precursor sequence by an autocatalytic mechanism or by cleavage by Caspase-8.

Similarity:
Belongs to the peptidase C14A family.
Contains 1 CARD domain.

SWISS:
P49662

Gene ID:
12363

Database links:

Entrez Gene: 837Human

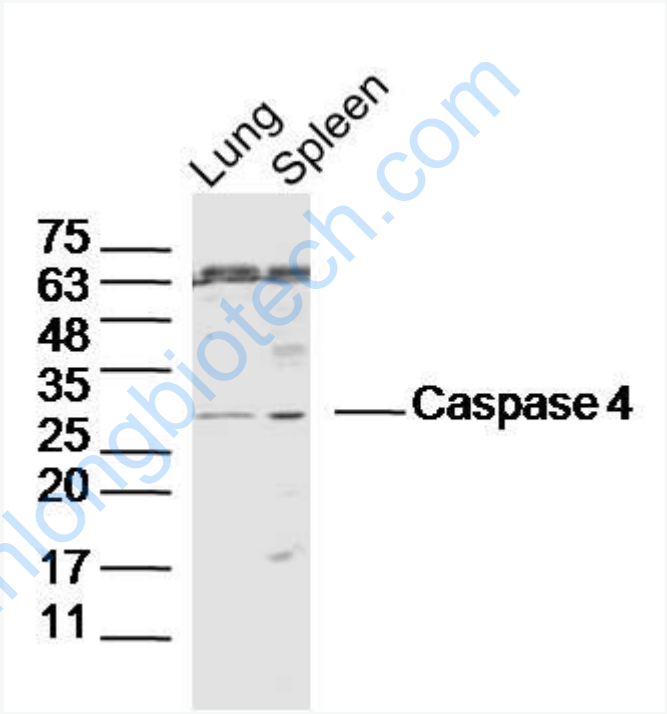
Entrez Gene: 12363Mouse

Omim: 602664Human

SwissProt: P49662Human

SwissProt: P70343Mouse

Unigene: 138378Human

	Unigene: 1569Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Sample: Lung (Mouse)Lysate at 40 ug Spleen (Mouse)Lysate at 40 ug Primary: Anti-Caspase 4(SL20494R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution Predicted band size: 20/33kD Observed band size: 33kD