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Cleaved-Caspase-4/5 p20 (D270/D311) Polyclonal Antibody

Catalog No	YP-Ab-00018		
Isotype	IgG		
Reactivity	Human		
Applications	WB;ELISA		
Gene Name	CASP4		
Protein Name	Caspase4		
Immunogen	The antiserum was produced against synthesized peptide derived from human Caspase 4/5. AA range:221-270		
Specificity	Cleaved-Caspase-4/5 p20 (D270/D311) Polyclonal Antibody detects endogenous levels of fragment of activated Caspase-4/5 p20 protein resulting from cleavage adjacent to D270/D311.		
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.		
Source	Polyclonal, Rabbit,IgG		
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.		
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.		
Concentration	1 mg/ml		
Purity	≥90%		
Storage Stability	-20°C/1 year		
Synonyms	CASP4; ICH2; Caspase-4; CASP-4; ICE(rel)-II; Protease ICH-2; Protease TX; CASP5; ICH3; Caspase-5; CASP-5; ICE(rel)-III; Protease ICH-3; Protease TY		
Observed Band	47,22kD		
Cell Pathway	Cytoplasm, cytosol . Endoplasmic reticulum membrane ; Peripheral membrane protein ; Cytoplasmic side . Mitochondrion . Inflammasome . Secreted . Predominantly localizes to the endoplasmic reticulum (ER). Association with the ER membrane requires TMEM214 (PubMed:15123740). Released in the extracellular milieu by keratinocytes following UVB irradiation (PubMed:22246630)		
Tissue Specificity	Widely expressed, including in keratinocytes and colonic and small intestinal epithelial cells (at protein level). Not detected in brain.		
Function	catalytic activity:Strict requirement for Asp at the P1 position. It has a preferred cleavage sequence of Tyr-Val-Ala-Asp- - but also cleaves at Asp-Glu-Val-Asp- ,function:Involved in the activation cascade of caspases responsible for apoptosis execution. Cleaves caspase-1.,PTM: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		



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🔇 Tel: 400-999-8863 📼 Emall:Upingbio.163.com Website: www.upingBio.com family.,similarity:Contains 1 CARD domain.,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., This gene encodes a protein that is a member of the cysteine-aspartic acid Background protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes composed of a prodomain and a large and small protease subunit. Activation of caspases requires proteolytic processing at conserved internal aspartic residues to generate a heterodimeric enzyme consisting of the large and small subunits. This caspase is able to cleave and activate its own precursor protein, as well as caspase 1 precursor. When overexpressed, this gene induces cell apoptosis. Alternative splicing results in transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008], matters needing Avoid repeated freezing and thawing! attention Usage suggestions This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images		
CASP4/5 (p20,Cleaved-Asp270/Asp311	Jк 250 150 100 75 50 37 25 20 15 (kd)	Western blot analysis of Caspase 4/5 (p20, Cleaved-Asp270/Asp311) Antibody. The lane on the right is blocked with the Caspase 4/5 (p20, Cleaved-Asp270/Asp311) peptide.