

Caspase 4 (p10, Cleaved-Ala290) rabbit pAb

Catalog No :	YC0119
Reactivity :	Human
Applications :	WB;ELISA
Target :	Caspase-4
Fields :	>>Neutrophil extracellular trap formation;>>NOD-like receptor signaling pathway;>>Pathogenic Escherichia coli infection;>>Shigellosis;>>Salmonella infection
Gene Name :	CASP4 ICH2
Protein Name :	Caspase4
Human Gene Id :	837
Human Swiss Prot No :	P49662
Mouse Gene Id :	12363
Mouse Swiss Prot No :	P70343
Immunogen :	Synthesized peptide derived from human Caspase 4 (p10, Cleaved-Ala290)
Specificity :	This antibody detects endogenous levels of Human Caspase 4 (p10, Cleaved-Ala290, protein was cleaved amino acid sequence between 289-290)
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:1000-2000 ELISA 1:5000-20000
Purification :	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 10 42kD

Background : 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 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. ,

Function : proteolysis, apoptosis, induction of apoptosis, cell death, regulation of cell death, positive regulation of cell death,programmed cell death, induction of programmed cell death, death, regulation of apoptosis, positive regulation of apoptosis, regulation of programmed cell death, positive regulation of programmed cell death,

Subcellular Location : 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). .

Expression : Widely expressed, including in keratinocytes and colonic and small intestinal epithelial cells (at protein level). Not detected in brain.

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