

**Caspase 4 (p10, Cleaved-Ala290) rabbit pAb**

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

**Concentration :** 1 mg/ml

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

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**Observed Band :** 10 42kD

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**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. ,

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**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,

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**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). .

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

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