



Caspase 4 (p10, Cleaved-Ala290) mouse mAb

Catalog No	YP-mAb-00037
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CASP4 ICH2
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	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Caspase-4;CASP4 ICH2;Caspase4;Caspase-4 (CASP-4;EC 3.4.22.57;ICE(rel)-II;Protease ICH-2;Protease TX) [Cleaved into: Caspase-4 subunit 1;Caspase-4 subunit 2]
Observed Band	10 42kD
Calculated Molecular Weight	10 42kD
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	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,

**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.,

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images