

Caspase-4 Rabbit pAb

CatalogNo: YT0657 Orthogonal Validated 

Key Features

Host Species

- Rabbit

Reactivity

- Human

Applications

- WB,IHC,IF,ELISA

MW

- 45kD (Observed)

Isotype

- IgG

Storage

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

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:40000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human Caspase-4. AA range:75-124

Specificity Caspase-4 Polyclonal Antibody detects endogenous levels of Caspase-4 protein.

Target Information

Gene name CASP4 ICH2

Protein Name Caspase4

Organism

Gene ID

UniProt ID

Human

[837](#);

[P49662](#);

Cellular Localization

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) .

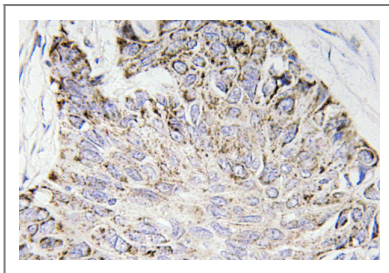
Tissue specificity

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

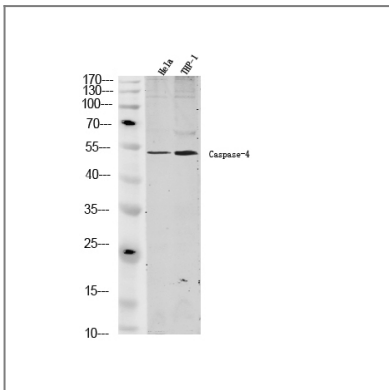
Function

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 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.,

Validation Data



Immunohistochemistry analysis of Caspase-4 antibody in paraffin-embedded human lung carcinoma tissue.



Western blot analysis of lysates from 1) HeLa ,2)THP-1, (Green) primary antibody was diluted at 1:1000, 4°C over night, secondary antibody (cat:RS23920)was diluted at 1:10000, 37° 1hour.

| Contact information

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Caspase-4 Rabbit pAb

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