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Caspase-1 Rabbit mAb

Catalog No.: A27901

Recombinant | 3 Publications

Basic Information

Observed MW
35-48kDa(pro),20 kDa/22 kDa(cleavad)

Calculated MW
45kDa

Category
Monoclonal Antibodies

Applications
WB, IF/ICC, ELISA

Cross Reactivity
Human

Clone No.
ARC72330

Background

This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. This gene was identified by its ability to proteolytically cleave and activate the inactive precursor of interleukin-1, a cytokine involved in the processes such as inflammation, septic shock, and wound healing. This gene has been shown to induce cell apoptosis and may function in various developmental stages. Studies of a similar gene in mouse suggest a role in the pathogenesis of Huntington disease. Alternative splicing results in transcript variants encoding distinct isoforms.

Recommended Dilutions

WB	1:2500 - 1:10000
IF/ICC	1:100 - 1:400

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
834

Swiss-Prot
P29466

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
ICE; P45; IL1BC

Contact

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Product Information

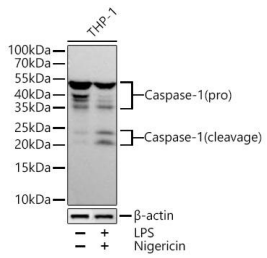
Source
Rabbit

Isotype
IgG

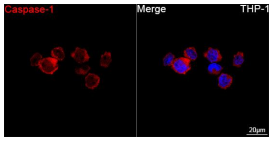
Purity
Affinity purification

Storage
Store at -20℃

Validation Data



Western blot analysis of lysates from THP-1 cells using Caspase-1 Rabbit mAb (A27901) at 1:5000 dilution incubated overnight at 4℃. THP-1 cells were treated with LPS (80 nM) at 37℃ for overnight and Nigericin (10 uM) at 37℃ for 2 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



Confocal imaging of THP-1 cells using Caspase-1 Rabbit mAb (A27901, dilution 1: 200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue).
Objective: 100x.