

Caspase-1 Rabbit pAb

Catalog No.: A0964 **63 Publications**

Basic Information

Catalog No.

A0964

Observed MW

48kDa/20-25kDa

Calculated MW

10kDa/29kDa/35kDa/42kDa/45kDa

Category

Primary antibody

Applications

WB, IHC, IF, IP

Cross-Reactivity

Human, Mouse, Rat

Recommended Dilutions

WB	1:500 - 1:2000
IHC	1:50 - 1:200
IF	1:50 - 1:200
IP	1:50 - 1:100

Contact

 | www.abclonal.com

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.

Immunogen Information

Gene ID	Swiss Prot
834	P29466

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-311 of human Caspase-1 (NP_150635.1).

Synonyms

CASP1;ICE;IL1BC;P45;caspase-1;Caspase 1

Product Information

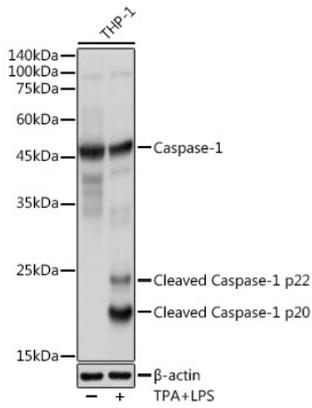
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of extracts of THP-1 cells, using Caspase-1 antibody (A0964) at 1:1000 dilution. THP-1 cells were treated by PMA/TPA (80 nM) at 37°C for overnight and LPS (1 μ g/ml) at 37°C for 6 hours.

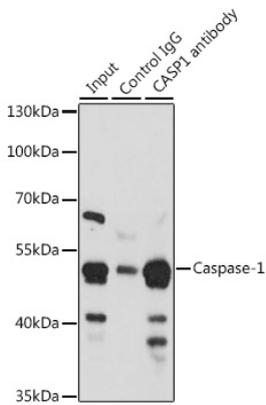
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

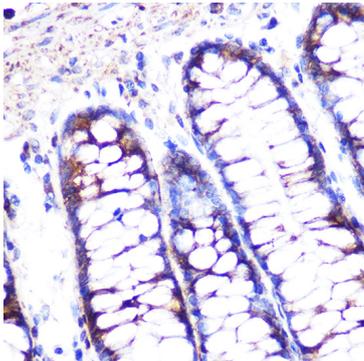
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

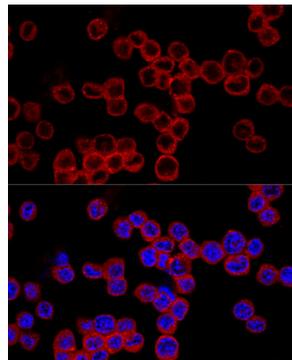
Exposure time: 2s.



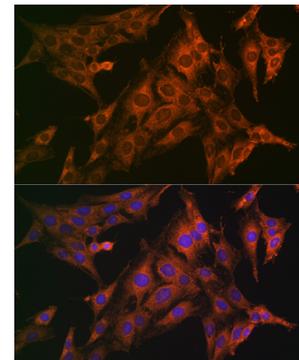
Immunoprecipitation analysis of 200ug extracts of THP-1 cells, using 3 ug Caspase-1 antibody (A0964). Western blot was performed from the immunoprecipitate using Caspase-1 antibody (A0964) at a dilution of 1:1000.



Immunohistochemistry of paraffin-embedded human colon using Caspase-1 Rabbit pAb (A0964) at dilution of 1:100 (40x lens).

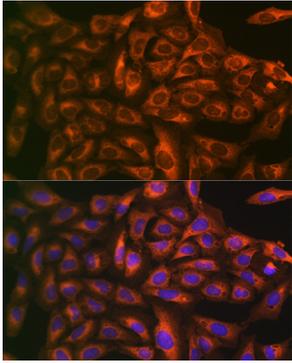


Confocal immunofluorescence analysis of Raw264.7 cells using Caspase-1 Polyclonal Antibody (A0964) at dilution of 1:200. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of C6 cells using Caspase-1 Rabbit pAb (A0964) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Validation Data



Immunofluorescence analysis of U-2 OS cells using Caspase-1 Rabbit pAb (A0964) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.