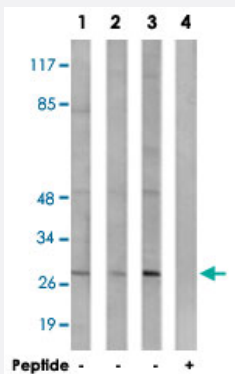


CASP1 polyclonal antibody

Catalog # PAB18384 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from 293 cells (Lane 1 and 4), MCF-7 cells (Lane 2) and HeLa cells (Lane 3), using CASP1 polyclonal antibody (Cat # PAB18384).

Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CASP1.
Immunogen	A synthetic peptide corresponding to residues surrounding S376 of human CASP1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to CASP1.
Form	Liquid
Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:20000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)

Storage Instruction

Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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- Immunohistochemistry

- Enzyme-linked Immunoabsorbent Assay

Gene Info — CASP1

Entrez GeneID[834](#)**Protein Accession#**[P29466](#)**Gene Name**

CASP1

Gene Alias

ICE, IL1BC, P45

Gene Description

caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)

Omim ID[147678](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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 of this gene results in five transcript variants encoding distinct isoforms. [provided by RefSeq]

Other Designations

CASP1 nirs variant 1|IL1B-convertase|caspase 1|caspase 1, apoptosis-related cysteine protease (interleukin 1, beta, convertase)|interleukin 1-B converting enzyme|interleukin 1-beta convertase

Publication Reference

- [Caspase-1zeta, a new splice variant of the caspase-1 gene.](#)

Feng Q, Li P, Leung PC, Auersperg N.

Genomics 2004 Sep; 84(3):587.

- [NALP3 forms an IL-1beta-processing inflammasome with increased activity in Muckle-Wells autoinflammatory disorder.](#)

Agostini L, Martinon F, Burns K, McDermott MF, Hawkins PN, Tschopp J.

Immunity 2004 Mar; 20(3):319.

Application: WB, Human, THP-1 cells

Pathway

- [Amyotrophic lateral sclerosis \(ALS\)](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer Disease](#)
- [Asthma](#)
- [Bronchiolitis](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Disease Susceptibility](#)
- [Edema](#)

- [Gastrointestinal Stromal Tumors](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Infant](#)
- [Inflammation](#)
- [Leukemia](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Memory](#)
- [Myocardial Infarction](#)
- [Neovascularization](#)
- [Neuropsychological Tests](#)
- [Occupational Diseases](#)
- [Paratyphoid Fever](#)
- [Prostatic Neoplasms](#)
- [Respiratory Syncytial Virus Infections](#)
- [Typhoid Fever](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)