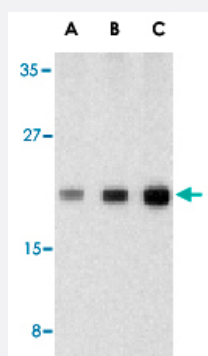


CASP1 polyclonal antibody

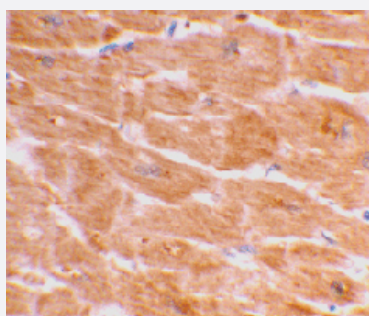
Catalog # PAB13134 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of CASP1 in human heart tissue lysate with CASP1 polyclonal antibody (Cat # PAB13134) at (A) 0.5, (B) 1, and (C) 2 ug/mL .



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human heart tissue using CASP1 polyclonal antibody (Cat # PAB13134) at 2 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CASP1.
Immunogen	A synthetic peptide corresponding to C-terminus 16 amino acids of human CASP1.
Host	Rabbit
Reactivity	Human
Form	Liquid

Recommend Usage	Western Blot (0.5 ug/mL) Immunohistochemistry (0.5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C for up to one year. 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 (Tissue lysate)

Western blot analysis of CASP1 in human heart tissue lysate with CASP1 polyclonal antibody (Cat # PAB13134) at (A) 0.5, (B) 1, and (C) 2 ug/mL .

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human heart tissue using CASP1 polyclonal antibody (Cat # PAB13134) at 2 ug/mL .

Gene Info — CASP1

Entrez GeneID	834
Protein Accession#	NP_150634
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

- [Inflammatory caspases: linking an intracellular innate immune system to autoinflammatory diseases.](#)

Martinon F, Tschopp J.

Cell 2004 May; 117(5):561.

- [Interleukin-18.](#)

Gracie JA, Robertson SE, McInnes IB.

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- [Altered cytokine export and apoptosis in mice deficient in interleukin-1 beta converting enzyme.](#)

Kuida K, Lippke JA, Ku G, Harding MW, Livingston DJ, Su MS, Flavell RA.

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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](#)