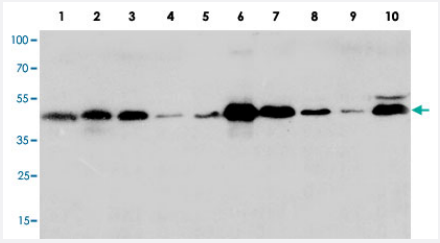
CASP1 polyclonal antibody

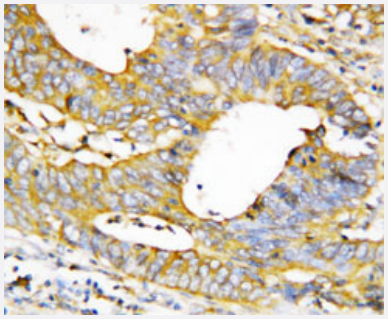
Catalog # PAB19492 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of whole cell extracts with CASP1 polyclonal antibody (Cat # PAB19492).
Lane 1, NIH/3T3
Lane 2, MCF-7
Lane 3, HeLa
Lane 4, SMMC
Lane 5, HT1080
Lane 6, SW620
Lane 7, Jurkat
Lane 8, Raji
Lane 9, CEM
Lane 10, PC-12



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

Immunohistochemical staining of paraffin-embedded human breast cancer tissue section with CASP1 polyclonal antibody (Cat # PAB19492).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CASP1.
Immunogen	A synthetic peptide corresponding to amino acids at N-terminus of human CASP1.
Host	Rabbit

Reactivity	Human
Form	Lyophilized
Purification	Immunoaffinity purification
Isotype	IgG
Recommend Usage	Western Blot (1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.9 mg NaCl, 0.2 mg Na_2HPO_4 (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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Gene Info — CASP1

Entrez GeneID	834

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 apopto sis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved a spartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme. T his 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 develop mental stages. Studies of a similar gene in mouse suggest a role in the pathogenesis of Huntingt on disease. Alternative splicing of this gene results in five transcript variants encoding distinct isof orms. [provided by RefSeq
Other Designations	CASP1 nirs variant 1|IL1B-convertase|caspase 1|caspase 1, apoptosis-related cysteine proteas e (interleukin 1, beta, convertase)|interleukin 1-B converting enzyme|interleukin 1-beta convertase

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