

Datasheet for ABIN2787901

anti-Caspase 1 antibody (Middle Region)**2** Images[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	Caspase 1 (CASP1)
Binding Specificity:	Middle Region
Reactivity:	Human, Horse, Rabbit, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human CASP1
Sequence:	LQTRVLNKEE MEKVKRENAT VMDKTRALID SVIPKGAQAC QICITYICEE
Predicted Reactivity:	Horse: 79%, Human: 100%, Rabbit: 79%, Yeast: 100%
Characteristics:	This is a rabbit polyclonal antibody against CASP1. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	Caspase 1 (CASP1)
Alternative Name:	CASP1 (CASP1 Products)
Background:	This gene encodes a protein which is a member of the cysteine-aspartic acid protease

Target Details

(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.

Alias Symbols: ICE, IL1BC, P45

Protein Interaction Partner: ced-3, ced-4, VAC14, BCL2L1, UBC, XK, PLA2G4B, IL33, IL1B, PARP1, BIRC3, TRAF2, CEBPB, TIRAP, CARD17, CARD16, CARD8, PLA2G4A, CDK11B, NLRP1, ATN1, ATXN3, PYCARD, NLRC4, NOD1, CASP14, RIPK2, PAK1, PARK2, NEDD4, BID, IL18, PSEN2, NFE2L2, AR, BCAP31, MAPT, L

Protein Size: 383

Molecular Weight:	10 kDa
Gene ID:	834
NCBI Accession:	NM_001223 , NP_001214
UniProt:	P29466
Pathways:	Apoptosis , Interferon-gamma Pathway , Positive Regulation of Endopeptidase Activity , Inflammasome

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 383 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-CASP1 Antibody Titration:
0.2-1 ug/ml
ELISA Titer: 1:1562500
Positive Control: 721_B cell lysate

Western Blotting

Image 2. WB Suggested Anti-CASP1
Antibody Titration: 0.2-1 µg/mL ELISA Titer: 1:1562500
Positive Control: 721_B cell lysate
CASP1 is strongly supported by BioGPS gene expression data to be expressed in Human 721_B cells