



Rabbit Anti-Human CASP1 Polyclonal Antibody (CABT-L2043)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Caspase 1 (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against CASP1. It has been selected for its ability to recognize CASP1 in immunohistochemical staining and western blotting.
Target	CASP1
Immunogen	Recombinant fragment corresponding to human CASP1 (Asn120~Asp297)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Pig
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	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. [provided by RefSeq, Mar 2012]
Keywords	ICE;IL1BC;IL1-BC;P45;Interleukin 1 Beta Converting Enzyme;Apoptosis-Related Cysteine Peptidase;Interleukin-1 beta convertase

GENE INFORMATION

Gene Name	CASP1 caspase 1, apoptosis-related cysteine peptidase [Homo sapiens (human)]
Official Symbol	CASP1
Synonyms	CASP1; caspase 1, apoptosis-related cysteine peptidase; ICE; P45; IL1BC; caspase-1; IL1B-convertase; CASP1 nirs variant 1; IL-1 beta-converting enzyme; interleukin 1, beta, convertase; interleukin 1-B converting enzyme; caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase);
Entrez Gene ID	834
Protein Refseq	NP_001214
UniProt ID	P29466
Chromosome Location	11q23
Pathway	Amyotrophic lateral sclerosis (ALS); Apoptosis; Caspase cascade in apoptosis; Cellular roles of Anthrax toxin; Cytokine Signaling in Immune system; Cytosolic DNA-sensing pathway; Direct p53 effectors; IFN-gamma pathway;

Function

cysteine-type endopeptidase activator activity involved in apoptotic process; cysteine-type endopeptidase activity; endopeptidase activity; protein binding;
