



Rabbit Anti-Human CASP1 (Phospho-Ser376) polyclonal antibody (CABT-L3339)

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

PRODUCT INFORMATION

Product Overview	Rabbit Anti-Human CRYAB (Phospho-Ser19) polyclonal antibody. This antibody detects endogenous levels of Caspase 1 only when phosphorylated at Ser376.
Specificity	Target Modification: Phospho. Modification Sites: Human: S376; Mouse: S374; Rat: S374
Target	Human Caspase 1 (Phospho-Ser376)
Immunogen	The antiserum was produced against synthesized peptide derived from human Caspase 1 around the phosphorylation site of Ser376. Immunogen range: 342-391
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purification	Affinity Purified
Conjugate	Unconjugated
Applications	WB, IHC, ELISA
Molecular Weight	29 kDa
Preparation	The antibody was purified from rabbit antiserum by affinity-chromatography using phospho peptide. The antibody against non-phospho peptide was removed by chromatography using corresponding non-phospho peptide.
Format	Liquid

Concentration	Lot specific
Size	100 µl
Buffer	Rabbit IgG in PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl and 50% glycerol.
Preservative	0.02% Sodium Azide
Storage	Stable at -20°C for at least 1 year.
Ship	Wet ice

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.
Keywords	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);

GENE INFORMATION

Gene Name	CASP1 caspase 1, apoptosis-related cysteine peptidase [Homo sapiens (human)]
Official Symbol	CASP1
Synonyms	CASP-1, caspase-1, ICE, IL-1 beta converting enzyme, IL-1BC, IL1BCE, interleukin-1 beta convertase, interleukin-1 beta converting enzyme, p45
Entrez Gene ID	834
UniProt ID	P29466