CASP5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CASP5, Polyclonal Antibody
Full Product Name	CASP5 Conjugated Antibody
Product Gene Name	anti-CASP5 antibody
Product Synonym Names	ICH-3; ICEREL-III; ICE (rel)III
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total CASP5 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	41,851 Da
OMIM	602665
3D Structure	ModBase 3D Structure for P51878
Immunogen	Fusion protein of human CASP5
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-CASP5 antibody	Most Applications
Application Notes for anti-CASP5 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-CASP5 antibody	This gene encodes 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 two subunits, large and small, that dimerize to form the active enzyme. Overexpression of the active form of this enzyme induces apoptosis in fibroblasts. Max, a central component of the Myc/Max/Mad transcription regulation network important for cell growth, differentiation, and apoptosis, is cleaved by this protein; this process requires Fas-mediated dephosphorylation of Max. The expression of this gene is regulated by interferon-gamma and lipopolysaccharide. Alternatively spliced transcript variants have been identified for this gene.
Other Notes	Small volumes of anti-CASP5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for CASP5 purchase	MBS9451258 is an antibody targeting CASP5. Also known as CASP5 Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CASP5. It may not necessarily be applicable to this product.

NCBI GI #	109731244
NCBI GeneID	838
NCBI Accession #	BC113406
UniProt Primary Accession #	P51878
UniProt Secondary Accession #	Q0QVY7; Q0QVY8; Q0QVZ0; Q0QVZ1; Q0QVZ2; Q14DD6; Q1HBJ3; Q6DJV7; B4DKP5
UniProt Related Accession #	P51878
NCBI Official Full Name	Homo sapiens caspase 5, apoptosis-related cysteine peptidase, mRNA
NCBI Official Synonym Full Names	caspase 5
NCBI Official Symbol	CASP5
NCBI Official Synonym Symbols	ICH-3; ICEREL-III; ICE(rel)III
UniProt Protein Name	Caspase-5
UniProt Synonym Protein Names	ICE(rel)-III; Protease ICH-3; Protease TY
Protein Family	Caspase
UniProt Gene Name	CASP5
UniProt Synonym Gene Names	ICH3; CASP-5
UniProt Entry Name	CASP5_HUMAN
NCBI Protein Information	caspase-5
UniProt Comments for CASP5	CASP5: Mediator of programmed cell death (apoptosis). Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a 20 kDa (p20) and a 10 kDa (p10) subunits. Up-regulated by bacterial lipopolysaccharides (LPS). Expressed in barely detectable amounts in most tissues except brain, highest levels being found in lung, liver and skeletal muscle. Belongs to the peptidase C14A family. 6 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.22.58; Protease Chromosomal Location of Human Ortholog: 11q22.2-q22.3 Cellular Component: neuron projection; cell soma; cytoplasm Molecular Function: cysteine-type endopeptidase activity; cysteine-type peptidase activity Biological Process: regulation of apoptosis; substantia nigra development; apoptosis; regulation of inflammatory response; germ cell programmed cell death; positive regulation of interleukin-1 beta secretion; proteolysis
Research Articles on CASP5	**1.** Caspase-4 and caspase-5 mediate IL-1alpha and IL-1beta release from human monocytes after lipopolysaccharides stimulation.
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