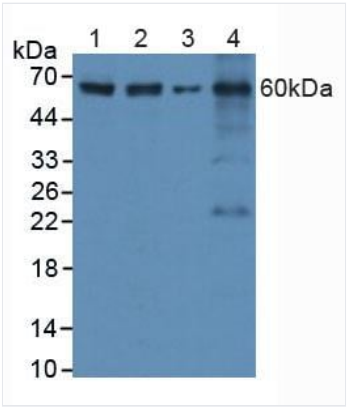
Caspase 8 (CASP8) Antibody – Rabbit Polyclonal

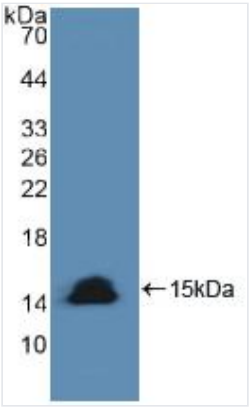
PRODUCT OVERVIEW

Product Name	Caspase 8 (CASP8), Polyclonal Antibody
Full Product Name	Polyclonal Antibody to Caspase 8 (CASP8)
Product Gene Name	anti-CASP8 antibody
Immunogen Sequence	Antigen: The target protein is fused with two N-terminal Tags, His-tag and its sequence is listed below. MGSSHHHHHH SSGLVPRGSH MASMTGGQQM GRGSEF-LSS PQT RYIPDEADFL LGMATVNNCV SYRNPAEGTW YIQSLCQSLR ERCPRGDDIL TILTEVNYEV SNKDDKKNMG KQMPQPTFTL RKKLVFPSD
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat, Pig
Form/Format	Supplied as solution form in PBS, pH7.4, containing 0.02% NaN3,50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	500ug/mL (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against CASP8. It has been selected for its ability to recognize CASP8 in immunohistochemical staining andwestern blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Stored at -20 degree C to -80 degree C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.
Matching Pairs	Unconjugated Antibody: CASP8 (MBS2006173) Immunogen: CASP8 (MBS2011995)
Matching Pairs	Unconjugated Antibody: CASP8 (MBS2006173) APC-CY7 Conjugated Antibody: CASP8 (MBS2048665)
Matching Pairs	Unconjugated Antibody: CASP8 (MBS2006173) PE Conjugated Antibody: CASP8 (MBS2048668)
Matching Pairs	Unconjugated Antibody: CASP8 (MBS2006173) APC Conjugated Antibody: CASP8 (MBS2048671)
Matching Pairs	Unconjugated Antibody: CASP8 (MBS2006173) FITC Conjugated Antibody: CASP8 (MBS2048676)
Matching Pairs	Unconjugated Antibody: CASP8 (MBS2006173) HRP Conjugated Antibody: CASP8 (MBS2048679)
Matching Pairs	Unconjugated Antibody: Caspase 8 (CASP8) (MBS2006173) APC-CY7 Conjugated Secondary Antibody: Immunoglobulin G (MBS2090675)
Matching Pairs	Unconjugated Antibody: Caspase 8 (CASP8) (MBS2006173) Unconjugated Secondary Antibody: Immunoglobulin G (MBS2090678)
Matching Pairs	Unconjugated Antibody: CASP8 (MBS2006173) Biotin Conjugated Antibody: CASP8 (MBS2092594)
Matching Pairs	Unconjugated Antibody: CASP8 (MBS2006173) Cy3 Conjugated Antibody: CASP8 (MBS2120671)
Molecular Weight	61,836 Da
OMIM	X98172 mRNA

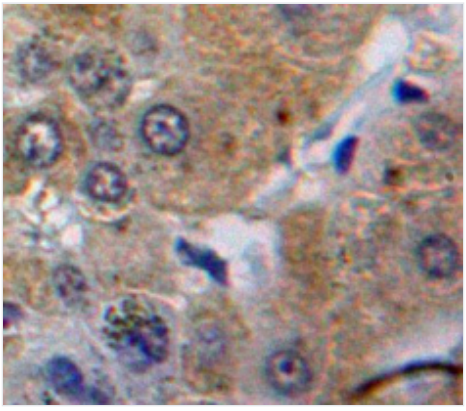
3D Structure	ModBase 3D Structure for Q14790
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	Recombinant CASP8 (Leu385~Asp479) expressed in E.coli.
Cross Reactivity	Human, Mouse
Conjugated Antibody	The APC conjugated antibody version of this item is also available as catalog #MBS2048671
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-CASP8 antibody	Immunocytochemistry (ICC), Immunohistochemistry (IHC) - Formalin/Paraffin, ELISA (EIA), Western Blot (WB)
Application Notes for anti-CASP8 antibody	Western blotting: 1:100-400 Immunocytochemistry in formalin fixed cells: 1:100-500 Immunohistochemistry in formalin fixed frozen section: 1:100-500 Immunohistochemistry in paraffin section: 1:50-200 Enzyme-linked Immunosorbent Assay: 1:100-200
Related Product Information for anti-CASP8 antibody	MBS2006173 is an antibody targeting CASP8. Also known as Polyclonal Antibody to Caspase 8 (CASP8). Reactive in Human, Mouse, Rat, Pig. Host: Rabbit.
Other Notes	Small volumes of anti-CASP8 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.



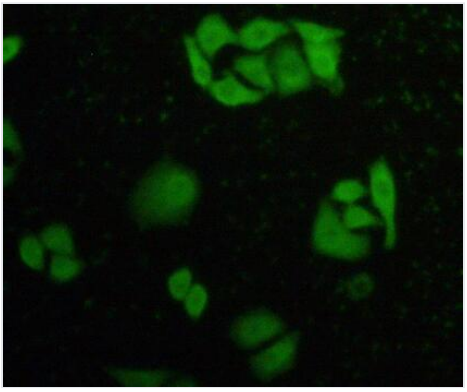
Western Blot (WB) of anti-CASP8 antibody
Western Blot: Sample: Lane1: Human Hela Cells; Lane2: Human HepG2 Cells; Lane3: Mouse RAW264.7 Cells; Lane4: Mouse Spleen Tissue.



Western Blot (WB) of anti-CASP8 antibody
Western Blot: Sample: Recombinant CASP8, Human.



Immunohistochemistry (IHC) of anti-CASP8 antibody
DAB staining on fromalin fixed paraffin-embedded Liver tissue)



Immunohistochemistry (IHC) of anti-CASP8 antibody
FITC staining on IHC-P Simple: Hela cells)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CASP8. It may not necessarily be applicable to this product.

NCBI GI #	122056474
NCBI GeneID	841
NCBI Accession #	NP_001073593.1
UniProt Primary Accession #	Q14790
UniProt Secondary Accession #	O14676; Q14791; Q14792; Q14793; Q14794; Q14795; Q14796; Q15780; Q15806; Q53TT5; Q8TDI1
UniProt Related Accession #	Q14790
GenBank Nucleotide #	NM_001080124.1
NCBI Official Full Name	caspase-8 isoform C
NCBI Official Synonym Full Names	caspase 8
NCBI Official Symbol	CASP8
NCBI Official Synonym Symbols	CAP4; MACH; MCH5; FLICE; ALPS2B; Casp-8
UniProt Protein Name	Caspase-8
UniProt Synonym Protein Names	Apoptotic cysteine protease; Apoptotic protease Mch-5; CAP4; FADD-homologous ICE/ced-3-like protease; FADD-like ICE; FLICE
Protein Family	Caspase
UniProt Gene Name	CASP8
UniProt Synonym Gene Names	MCH5; CASP-8; FLICE; MACH
NCBI Protein Information	caspase-8
NCBI Summary for CASP8	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 composed of a prodomain, a large protease subunit, and a small protease subunit. Activation of caspases requires proteolytic processing at conserved internal aspartic residues to generate a heterodimeric enzyme consisting of the large and small subunits. This protein is involved in the programmed cell death induced by Fas and various apoptotic stimuli. The N-terminal FADD-like death effector domain of this protein suggests that it may interact with Fas-interacting protein FADD. This protein was detected in the insoluble fraction of the affected brain region from Huntington disease patients but not in those from normal controls, which implicated the role in neurodegenerative diseases. Many alternatively spliced transcript variants encoding different isoforms have been described, although not all variants have had their full-length sequences determined. [provided by RefSeq, Jul 2008]

UniProt Comments for CASP8	CASP8: Most upstream protease of the activation cascade of caspases responsible for the TNFRSF6/FAS mediated and TNFRSF1A induced cell death. Binding to the adapter molecule FADD recruits it to either receptor. The resulting aggregate called death- inducing signaling complex (DISC) performs CASP8 proteolytic activation. The active dimeric enzyme is then liberated from the DISC and free to activate downstream apoptotic proteases. Proteolytic fragments of the N-terminal propeptide (termed CAP3, CAP5 and CAP6) are likely retained in the DISC. Cleaves and activates CASP3, CASP4, CASP6, CASP7, CASP9 and CASP10. May participate in the GZMB apoptotic pathways. Cleaves ADPRT. Hydrolyzes the small-molecule substrate, Ac-Asp-Glu-Val-Asp-|-AMC. Likely target for the cowpox virus CRMA death inhibitory protein. Isoform 5, isoform 6, isoform 7 and isoform 8 lack the catalytic site and may interfere with the pro-apoptotic activity of the complex. Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a 18 kDa (p18) and a 10 kDa (p10) subunit. Interacts with FADD, CFLAR and PEA15. Isoform 9 interacts at the endoplasmic reticulum with a complex containing BCAP31, BAP29, BCL2 and/or BCL2L1. Interacts with TNFAIP8L2. Interacts with human cytomegalovirus/HHV-5 protein vICA/UL36; this interaction inhibits CASP8 activation. Isoform 1, isoform 5 and isoform 7 are expressed in a wide variety of tissues. Highest expression in peripheral blood leukocytes, spleen, thymus and liver. Barely detectable in brain, testis and skeletal muscle. Belongs to the peptidase C14A family. 9 isoforms of the human protein are produced by alternative splicing. Protein type: Apoptosis; EC 3.4.22.61; Protease Chromosomal Location of Human Ortholog: 2q33.1 Cellular Component: CD95 death-inducing signaling complex; cell body; cytoskeleton; cytosol; membrane raft; mitochondrial outer membrane; mitochondrion; neuron projection; nucleoplasm Molecular Function: cysteine-type endopeptidase activity; cysteine-type peptidase activity; death receptor binding; identical protein binding; peptidase activity; protein binding; protein complex binding; tumor necrosis factor receptor binding; ubiquitin protein ligase binding Biological Process: activation of cysteine-type endopeptidase activity involved in apoptotic process; activation of cysteine-type endopeptidase activity involved in apoptotic signaling pathway; apoptosis; B cell activation; cell surface receptor signaling pathway; cellular response to organic cyclic compound; death-inducing signaling complex assembly; macrophage differentiation; natural killer cell activation; negative regulation of extrinsic apoptotic signaling pathway via death domain receptors; negative regulation of I-kappaB kinase/NF-kappaB signaling; nucleotide-binding oligomerization domain containing signaling pathway; positive regulation of I-kappaB kinase/NF-kappaB signaling; positive regulation of macrophage differentiation; positive regulation of neuron death; positive regulation of protein insertion into mitochondrial membrane involved in apoptotic signaling pathway; positive regulation of proteolysis; proteolysis; proteolysis involved in cellular protein catabolic process; regulation of extrinsic apoptotic signaling pathway via death domain receptors; regulation of tumor necrosis factor-mediated signaling pathway; response to antibiotic; response to cobalt ion; response to cold; response to estradiol; response to ethanol; response to lipopolysaccharide; response to tumor necrosis factor; T cell activation; toll-like receptor 3 signaling pathway; TRAIL-activated apoptotic signaling pathway Disease: Breast Cancer; Caspase 8 Deficiency; Hepatocellular Carcinoma; Lung Cancer
Research Articles on CASP8	**1.** study shows genetic association of rare variants in CASP8 with Alzheimer's disease and proposes a mechanism of action mediated by decreased enzyme activity; for two CASP8 variants, p.K148R and p.I298V, the association remained significant in a large combined sample
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