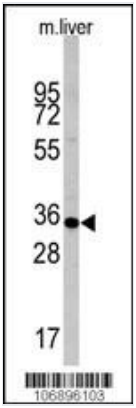
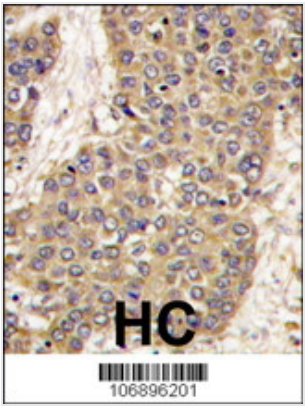
CASP6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CASP6, Polyclonal Antibody
Full Product Name	CASP6, CT (Caspase-6, CASP-6, Apoptotic Protease Mch-2, MCH2) (APC)
Product Gene Name	anti-CASP6 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human CASP6. Species Crossreactivity: mouse.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Do not freeze APC conjugates. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	22,574 Da
OMIM	601532
3D Structure	ModBase 3D Structure for P55212
Immunogen	Synthetic peptide selected from the C-terminal region of human CASP6 (KLH).
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CASP6 antibody	Antibodies; Apoptosis; Caspase
Applications Tested/Suitable for anti-CASP6 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-CASP6 antibody	IHC: 1:10-1:50 FLISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-CASP6 antibody	MBS6467538 is an antibody targeting CASP6. Also known as CASP6, CT (Caspase-6, CASP-6, Apoptotic Protease Mch-2, MCH2) (APC). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-CASP6 antibody	1. Schmeck, B., et al., Infect. Immun. 72(9):4940-4947 (2004). 2. Mendez, E., et al., J. Virol. 78(16):8601-8608 (2004). 3. MacLachlan, T.K., et al., Proc. Natl. Acad. Sci. USA 99(14):9492-9497 (2002). 4. Sordet, O., et al., Leukemia 16(8):1569-1570 (2002). 5. LeBlanc, A., et al., J. Biol. Chem. 274(33):23426-23436 (1999).
Other Notes	Small volumes of anti-CASP6 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-CASP6 antibody
Western blot analysis of anti-CASP6 Antibody (C-term) in mouse liver tissue lysates (35ug/lane). CASP6 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-CASP6 antibody
Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with CASP6 antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CASP6. It may not necessarily be applicable to this product.

NCBI GI #	14916483
NCBI GeneID	839
NCBI Accession #	NP_001217
UniProt Primary Accession #	P55212
UniProt Secondary Accession #	Q9BQE7
UniProt Related Accession #	P55212
GenBank Nucleotide #	NM_001226.3
NCBI Official Full Name	caspase-6 isoform alpha preproprotein
NCBI Official Synonym Full Names	caspase 6, apoptosis-related cysteine peptidase
NCBI Official Symbol	CASP6
NCBI Official Synonym Symbols	MCH2
UniProt Protein Name	Caspase-6
UniProt Synonym Protein Names	Apoptotic protease Mch-2
Protein Family	Caspase
UniProt Gene Name	CASP6
UniProt Synonym Gene Names	MCH2; CASP-6
UniProt Entry Name	CASP6_HUMAN
NCBI Protein Information	caspase-6; apoptotic protease MCH-2; caspase 6, apoptosis-related cysteine protease
NCBI Summary for CASP6	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 two subunits, large and small, that dimerize to form the active enzyme. This protein is processed by caspases 7, 8 and 10, and is thought to function as a downstream enzyme in the caspase activation cascade. Alternative splicing of this gene results in two transcript variants that encode different isoforms. [provided by RefSeq, Jul 2008]

UniProt Comments for CASP6	CASP6: Involved in the activation cascade of caspases responsible for apoptosis execution. Cleaves poly(ADP-ribose) polymerase in vitro, as well as lamins. Overexpression promotes programmed cell death. Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a 18 kDa (p18) and a 11 kDa (p11) subunit. Interacts with BIRC6/bruce. Activation is suppressed by phosphorylation at Ser-257. Belongs to the peptidase C14A family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.22.59; Protease; Apoptosis Chromosomal Location of Human Ortholog: 4q25 Cellular Component: nucleoplasm; cytoplasm; cytosol Molecular Function: identical protein binding; protein binding; cysteine-type endopeptidase activity; cysteine-type peptidase activity Biological Process: epithelial cell differentiation; apoptosis; proteolysis; cell structure disassembly during apoptosis
Research Articles on CASP6	**1.** unmodified STAT1 is cleaved at multiple sites by caspase-3 and caspase-6 in malignant undifferentiated hematopoietic cells
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