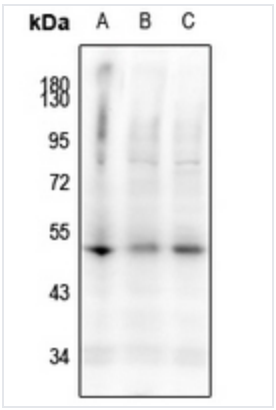
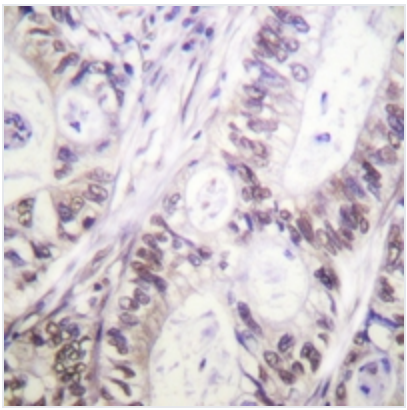
Caspase 9 (CASP9) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Caspase 9 (CASP9), Polyclonal Antibody
Full Product Name	Anti-Caspase 9 (pS144) Antibody
Product Gene Name	anti-CASP9 antibody
Product Synonym Names	MCH6; Caspase-9; CASP-9; Apoptotic protease Mch-6; Apoptotic protease-activating factor 3; APAF-3; ICE-like apoptotic protease 6; ICE-LAP6
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Monkey
Form/Format	Liquid in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3, 30% Glycerol, and 0.01% Sodium Azide.
Purity/Purification	Purified by Immunogen Affinity Chromatography
Specificity	Recognizes endogenous levels of Caspase 9 (pS144) protein.
Preparation and Storage	Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	46,281 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (15818769..15851285, complement). Location: 1p36.21
OMIM	602234
3D Structure	ModBase 3D Structure for P55211
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Caspase 9 (pS144). The exact sequence is proprietary.
Applications Tested/Suitable for anti-CASP9 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-CASP9 antibody	WB: 1:500-1:1000 IHC: 1:50-1:200
Related Product Information for anti-CASP9 antibody	MBS8305479 is an antibody targeting CASP9. Also known as Anti-Caspase 9 (pS144) Antibody. Reactive in Human, Mouse, Monkey. Host: Rabbit. Rabbit polyclonal antibody to Caspase 9
Other Notes	Small volumes of anti-CASP9 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-CASP9 antibody
Western blot analysis of Caspase 9 (pS144) expression in HEK293T (A), HepG2 (B), A375 (C) whole cell lysates.



Immunohistochemistry (IHC) of anti-CASP9 antibody
Immunohistochemical analysis of Caspase 9 (pS144) staining in human colon cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CASP9. It may not necessarily be applicable to this product.

NCBI GI #	14790124
NCBI GeneID	842
NCBI Accession #	NP_001220.2
UniProt Primary Accession #	P55211
UniProt Secondary Accession #	Q8C3Q9
UniProt Related Accession #	P55211
GenBank Nucleotide #	NM_001229.4
NCBI Official Full Name	caspase-9 isoform alpha
NCBI Official Synonym Full Names	caspase 9, apoptosis-related cysteine peptidase
NCBI Official Symbol	CASP9
NCBI Official Synonym Symbols	MCH6; APAF3; APAF-3; PPP1R56; ICE-LAP6
UniProt Protein Name	Caspase-9
UniProt Synonym Protein Names	Apoptotic protease Mch-6; Apoptotic protease-activating factor 3; APAF-3; ICE-like apoptotic protease 6
Protein Family	Caspase
UniProt Gene Name	CASP9
UniProt Synonym Gene Names	MCH6; CASP-9; APAF-3; ICE-LAP6
UniProt Entry Name	CASP9_HUMAN
NCBI Protein Information	caspase-9; apoptotic protease MCH-6; ICE-like apoptotic protease 6; apoptotic protease activating factor 3; protein phosphatase 1, regulatory subunit 56

NCBI Summary for CASP9	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. This protein can undergo autoproteolytic processing and activation by the apoptosome, a protein complex of cytochrome c and the apoptotic peptidase activating factor 1; this step is thought to be one of the earliest in the caspase activation cascade. This protein is thought to play a central role in apoptosis and to be a tumor suppressor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]
UniProt Comments for CASP9	CASP9: 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 protein is processed by caspase APAF1; this step is thought to be one of the earliest in the caspase activation cascade. Alternative splicing results in two isoforms. Protein type: Apoptosis; EC 3.4.22.62; Protease Chromosomal Location of Human Ortholog: 1p36.21 Cellular Component: mitochondrion; nucleus; cytosol; apoptosome Molecular Function: peptidase activity; protein binding; cysteine-type endopeptidase activity; enzyme activator activity; protein kinase binding; SH3 domain binding Biological Process: epidermal growth factor receptor signaling pathway; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; nerve growth factor receptor signaling pathway; apoptosis; positive regulation of apoptosis; DNA damage response, signal transduction; response to lipopolysaccharide; proteolysis; response to estradiol stimulus; response to antibiotic; DNA damage response, signal transduction resulting in induction of apoptosis; positive regulation of neuron apoptosis; response to cobalt ion; innate immune response; platelet formation; caspase activation via cytochrome c; response to DNA damage stimulus; aging
Research Articles on CASP9	**1.** Induction of caspase-9b expression is due to activation of hnRNP L via phosphorylation to compete/inhibit hnRNP U association with exon 3 of Casp9 mRNA.
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