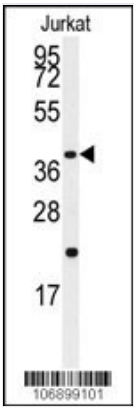
# CASP9 Antibody – Rabbit Polyclonal

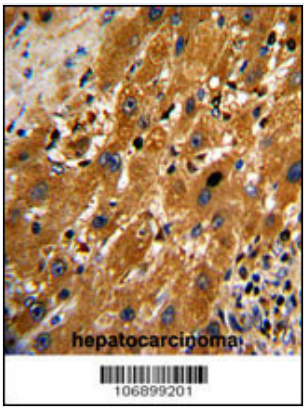
## PRODUCT OVERVIEW

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| **Product Name** | CASP9, Polyclonal Antibody |
| **Full Product Name** | CASP9 Antibody (S196) |
| **Product Gene Name** | anti-CASP9 antibody |
| **Product Synonym Names** | Caspase-9; CASP-9; Apoptotic protease Mch-6; Apoptotic protease-activating factor 3; APAF-3; ICE-like apoptotic protease 6; ICE-LAP6; Caspase-9 subunit p35; Caspase-9 subunit p10; CASP9; MCH6 |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit Ig |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Purity/Purification** | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab) |
| **Concentration** | Vial Concentration: 0.42 (lot specific) |
| **Specificity** | This CASP9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide corresponding to amino acid residues surrounding S196 of human CASP9. |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |
| **Antibody/Peptide Pairs** | CASP9 (S196) peptide (MBS9227427) is used for blocking the activity of CASP9 antibody (MBS9207453) |
| **Molecular Weight** | 46281 |
| **OMIM** | 602234 |
| **3D Structure** | ModBase 3D Structure for P55211 |
| **Antigen Type** | Synthetic Peptide |
| **Antigen Source** | HUMAN |
| **Product Categories/Family for anti-CASP9 antibody** | Cancer; Cell Biology; Metabolism; Amyotrophic Lateral Sclerosis (ALS) |
| **Applications Tested/Suitable for anti-CASP9 antibody** | Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS) |
| **Application Notes for anti-CASP9 antibody** | WB~~1:1000 |
| **Related Product Information for anti-CASP9 antibody** | Caspase 9 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 protein is processed by caspase APAF1; this step is thought to be one of the earliest in the caspase activation cascade. |

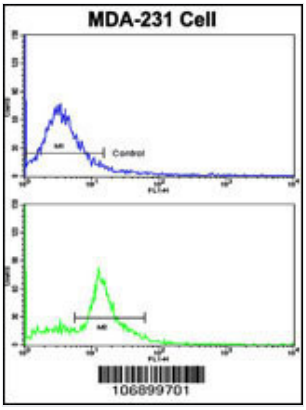
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| **Product References and Citations for anti-CASP9 antibody** | Martin, M.C., et al., J. Biol. Chem. 280(15):15449-15455 (2005).<br>Raina, D., et al., J. Biol. Chem. 280(12):11147-11151 (2005).<br>Cornelis, S., et al., Oncogene 24(9):1552-1562 (2005).<br>Mohammad, R.M., et al., Mol. Cancer Ther. 4(1):13-21 (2005).<br>Tacconi, S., et al., Exp. Neurol. 190(1):254-262 (2004). |
| **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. |
| **Searchable Terms for CASP9 purchase** | MBS9207453 is an antibody targeting CASP9. Also known as CASP9 Antibody (S196). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-CASP9 antibody**
Western blot analysis of anti-CASP9 Antibody (S196) in Jurkat cell line lysates (35ug/lane). CASP9 (arrow) was detected using the purified Pab.




**Immunohistochemistry (IHC) of anti-CASP9 antibody**
Formalin-fixed and paraffin-embedded human hepatocarcinoma with CASP9 Antibody (S196), 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.




**Flow Cytometry (FC/FACS) of anti-CASP9 antibody**
Flow cytometric analysis of MDA-231 cells using CASP9 Antibody (S196)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 14790124 |
| **NCBI GeneID** | 842 |
| **NCBI Accession #** | NP_001220.2 |
| **NCBI Related Accession #** | NP_001264983.1; NP_127463.2 |
| **UniProt Primary Accession #** | P55211 |

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| **UniProt Secondary Accession #** | O95348; Q53Y70; Q5JRU9; Q5UGI1; Q92852; Q9BQ62; Q9UEQ3; Q9UIJ8; B4E1A3 |
| **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 |
| **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 |
| **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.<br><br>Protein type: Apoptosis; EC 3.4.22.62; Protease<br><br>Chromosomal Location of Human Ortholog: 1p36.21<br><br>Cellular Component: mitochondrion; cytosol; nucleus; apoptosome<br><br>Molecular Function: peptidase activity; protein binding; cysteine-type endopeptidase activity; enzyme activator activity; protein kinase binding; SH3 domain binding<br><br>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.** caspase-9 mediates Puma activation to determine the threshold for overcoming chemoresistance in cancer cells. |
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