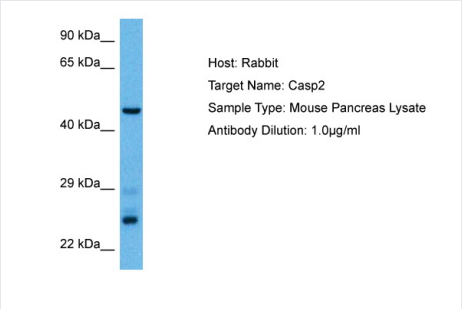
CASP2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CASP2, Polyclonal Antibody
Full Product Name	CASP2 Antibody - middle region
Product Gene Name	anti-CASP2 antibody
Product Synonym Gene Name	ICH-1; Nedd2; CASP-2; NEDD-2
Immunogen Sequence	Synthetic peptide located within the following region: RLFDNANCPS LQNKPKMFFI QACRGDETDR GVDQQDGKNH TQSPGCEESD
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 5% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -23C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	CASP2 peptide (MBS3248327) is used for blocking the activity of CASP2 antibody (MBS3223718)
Molecular Weight	49 kDa
3D Structure	ModBase 3D Structure for P29594
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of mouse CASP2
Product Categories/Family for anti-CASP2 antibody	Polyclonal; Cancer; DNA Damage & Repair; Apoptosis; Tissue Specific & Cell Marker
Applications Tested/Suitable for anti-CASP2 antibody	Western Blot (WB)
Related Product Information for anti-CASP2 antibody	This gene encodes the evolutionarily ancient and most conserved member of the cysteine proteases that plays important role in stress-induced apoptosis, DNA repair and tumor suppression. Mice lacking the encoded protein develop normally but display cell type-specific apoptotic defects. Germ cells and oocytes from such mice were found to be resistant to cell death after treatment with chemotherapeutic drugs.
Other Notes	Small volumes of anti-CASP2 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 CASP2 purchase	MBS3223718 is an antibody targeting CASP2. Also known as CASP2 Antibody - middle region. Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-CASP2 antibody
Host: RabbitTarget Name: CASP2Sample Tissue: Mouse Pancreas lysatesAntibody Dilution: 1ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CASP2. It may not necessarily be applicable to this product.

NCBI GI #	6680848
NCBI GeneID	12366
NCBI Accession #	NP_031636.1
UniProt Primary Accession #	P29594
UniProt Related Accession #	P29594
GenBank Nucleotide #	NM_007610.2
NCBI Official Synonym Full Names	caspase 2
NCBI Official Symbol	Casp2
NCBI Official Synonym Symbols	ICH-1; Nedd2; CASP-2; NEDD-2
UniProt Protein Name	Caspase-2
UniProt Synonym Protein Names	Neural precursor cell expressed developmentally down-regulated protein 2; NEDD-2; Protease ICH-1
Protein Family	Caspase
UniProt Gene Name	Casp2
UniProt Synonym Gene Names	Ich1; Nedd-2; Nedd2; CASP-2; NEDD-2
UniProt Entry Name	CASP2_MOUSE
NCBI Protein Information	caspase-2

UniProt Comments for CASP2	CASP2: Involved in the activation cascade of caspases responsible for apoptosis execution. Might function by either activating some proteins required for cell death or inactivating proteins necessary for cell survival. Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a p18 subunit and a p12 subunit. Interacts with LRDD. Expressed at higher levels in the embryonic lung, liver and kidney than in the heart and brain. In adults, higher level expression is seen in the placenta, lung, kidney, and pancreas than in the heart, brain, liver and skeletal muscle. Belongs to the peptidase C14A family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Apoptosis; EC 3.4.22.55; Protease Cellular Component: mitochondrion; membrane; cytoplasm; intracellular; nucleus Molecular Function: peptidase activity; protein domain specific binding; protein binding; hydrolase activity; cysteine-type endopeptidase activity; cysteine-type peptidase activity Biological Process: caspase activation; regulation of apoptosis; DNA damage response, signal transduction resulting in induction of apoptosis; apoptosis; positive regulation of apoptosis; positive regulation of neuron apoptosis; germ cell programmed cell death; protein processing; proteolysis; DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest; negative regulation of apoptosis
Research Articles on CASP2	**1.** A novel function for caspase-2 in myocyte differentiation and myogenesis.
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