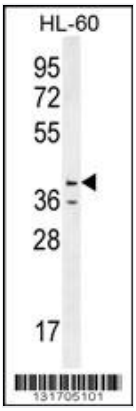
CASP12 Antibody – Rabbit Polyclonal

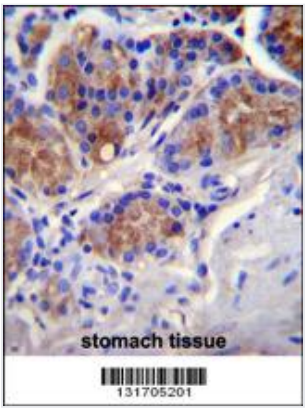
PRODUCT OVERVIEW

Product Name	CASP12, Polyclonal Antibody
Full Product Name	CASP12 Antibody (Center)
Product Gene Name	anti-CASP12 antibody
Product Synonym Names	Inactive caspase-12; CASP-12; CASP12
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: 0.39 (lot specific)
Specificity	This CASP12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 165-193 amino acids from the Central region of human CASP12.
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	CASP12 peptide (MBS9218805) is used for blocking the activity of CASP12 antibody (MBS9211511)
Molecular Weight	38865
Immunogen Sequence Positions	165-193
OMIM	608633
3D Structure	ModBase 3D Structure for Q6UXS9
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-CASP12 antibody	Cancer; Cell Biology; Metabolism; Neuroscience; Amyotrophic Lateral Sclerosis (ALS)
Applications Tested/Suitable for anti-CASP12 antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS), Immunofluorescence (IF)
Application Notes for anti-CASP12 antibody	WB~~1:1000

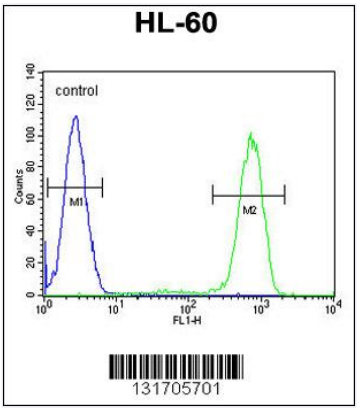
Related Product Information for anti-CASP12 antibody	Caspases are cysteine proteases that cleave C-terminal aspartic acid residues on their substrate molecules. This gene is most highly related to members of the ICE subfamily of caspases that process inflammatory cytokines. In rodents, the homolog of this gene mediates apoptosis in response to endoplasmic reticulum stress. However, in humans this gene contains a polymorphism for the presence or absence of a premature stop codon. The majority of human individuals have the premature stop codon and produce a truncated non-functional protein. The read-through codon occurs primarily in individuals of African descent and carriers have endotoxin hypo-responsiveness and an increased susceptibility to severe sepsis. Several alternatively spliced transcript variants have been noted for this gene.
Product References and Citations for anti-CASP12 antibody	Lee, H.J., et al. Arch. Biochem. Biophys. 502(1):68-73(2010) Plantinga, T.S., et al. J. Acquir. Immune Defic. Syndr. 55(1):87-94(2010) McCall, M.B., et al. Eur. Cytokine Netw. 21(2):77-83(2010) Kachapati, K., et al. Hum. Mutat. 27 (9), 975 (2006) : Xue, Y., et al. Am. J. Hum. Genet. 78(4):659-670(2006)
Other Notes	Small volumes of anti-CASP12 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 CASP12 purchase	MBS9211511 is an antibody targeting CASP12. Also known as CASP12 Antibody (Center). Reactive in Human. Host: Rabbit.



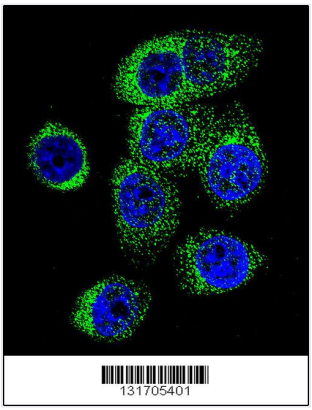
Western Blot (WB) of anti-CASP12 antibody
CASP12 Antibody (Center) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the CASP12 antibody detected the CASP12 protein (arrow).



Immunohistochemistry (IHC) of anti-CASP12 antibody
CASP12 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CASP12 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-CASP12 antibody
CASP12 Antibody (Center) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunofluorescence (IF) of anti-CASP12 antibody
Confocal immunofluorescent analysis of CASP12 Antibody (Center) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CASP12. It may not necessarily be applicable to this product.

NCBI GI #	300360580
NCBI GeneID	100506742
NCBI Accession #	NP_001177945.1
UniProt Primary Accession #	Q6UXS9
UniProt Secondary Accession #	D6RBN7
UniProt Related Accession #	Q6UXS9
GenBank Nucleotide #	NM_001191016.1
NCBI Official Full Name	inactive caspase-12
NCBI Official Synonym Full Names	caspase 12 (gene/pseudogene)
NCBI Official Symbol	CASP12
NCBI Official Synonym Symbols	CASP-12; CASP12P1
UniProt Protein Name	Inactive caspase-12
Protein Family	Inactive caspase
UniProt Gene Name	CASP12
UniProt Synonym Gene Names	CASP-12
UniProt Entry Name	CASPC_HUMAN
NCBI Protein Information	inactive caspase-12
NCBI Summary for CASP12	Caspases are cysteine proteases that cleave C-terminal aspartic acid residues on their substrate molecules. This gene is most highly related to members of the ICE subfamily of caspases that process inflammatory cytokines. In rodents, the homolog of this gene mediates apoptosis in response to endoplasmic reticulum stress. However, in humans this gene contains a polymorphism for the presence or absence of a premature stop codon. The majority of human individuals have the premature stop codon and produce a truncated non-functional protein. The read-through codon occurs primarily in individuals of African descent and carriers have endotoxin hypo-responsiveness and an increased susceptibility to severe sepsis. Several alternatively spliced transcript variants have been noted for this gene. [provided by RefSeq, Feb 2011]
UniProt Comments for CASP12	CASP12: Has no protease activity. May reduce cytokine release in response to bacterial lipopolysaccharide during infections. Reduces activation of NF-kappa-B in response to TNF. Detected in heart, kidney, liver, lung, pancreas, small intestine, spleen, stomach, thymus and testis. Belongs to the peptidase C14A family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; EC 3.4.22.- Chromosomal Location of Human Ortholog: 11q22.3 Cellular Component: cytoplasm Molecular Function: cysteine-type endopeptidase activity Biological Process: regulation of apoptosis; unfolded protein response; regulation of inflammatory response; proteolysis
Research Articles on CASP12	**1.** conclude that the functional CASP12L allele is not a marker for susceptibility and/or severity of CAP

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