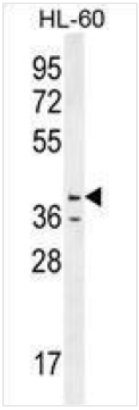
CASP12 Antibody – Rabbit Polyclonal

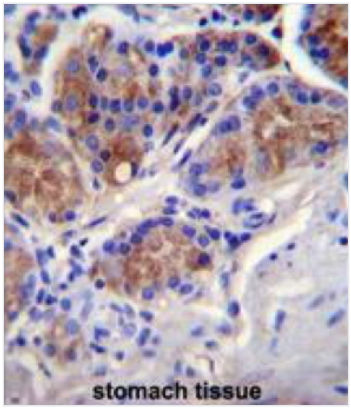
PRODUCT OVERVIEW

Product Name	CASP12, Polyclonal Antibody
Full Product Name	CASP12, ID (CASP12, Inactive caspase-12)
Product Gene Name	anti-Casp12 antibody
Product Synonym Names	Anti -CASP12, ID (CASP12, Inactive caspase-12)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	47,837 Da
Chromosome Location	Chromosome: 8; NC_005107.3 (2681125..2708341). Location: 8q11
3D Structure	ModBase 3D Structure for Q920D5
Immunogen	CASP12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 172-201 amino acids from the Central region of human CASP12.
Product Categories/Family for anti-Casp12 antibody	Antibodies; Abs to Apoptosis; Caspase
Applications Tested/Suitable for anti-Casp12 antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS), Immunofluorescence (IF)
Application Notes for anti-Casp12 antibody	Suitable for use in Western Blot, Immunohistochemistry, Immunofluorescence, Flow Cytometry, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500 Immunohistochemistry: 1:10-50 Flow Cytometry: 1:10-50 Immunofluorescence: 1:10-50
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.

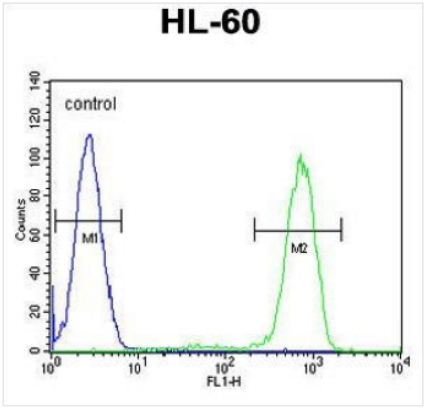
Other Notes	Small volumes of anti-Casp12 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Casp12 purchase	MBS6001433 is an antibody targeting Casp12. Also known as CASP12, ID (CASP12, Inactive caspase-12). Reactive in Human. Host: Rabbit.



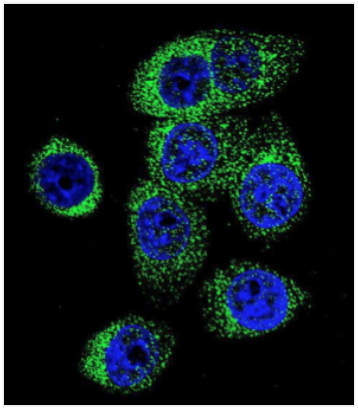
Western Blot (WB) of anti-Casp12 antibody
Western Blot analysis in HL-60 cell line lysates (35ug/lane) using MBS6001433. This demonstrates that MBS6001433 detected the CASP12 protein (arrow).



Immunohistochemistry (IHC) of anti-Casp12 antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue using MBS6001433 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS6001433 for immunohistochemistry.



Flow Cytometry (FC/FACS) of anti-Casp12 antibody
Flow Cytometric analysis of HL-60 cells using MBS6001433 (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 with 293 cells using MBS6001433 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 #	18426852
NCBI GeneID	156117
NCBI Accession #	NP_569106.1
UniProt Primary Accession #	Q920D5
UniProt Related Accession #	Q920D5
GenBank Nucleotide #	NM_130422.1
NCBI Official Full Name	caspase-12
NCBI Official Synonym Full Names	caspase 12

NCBI Official Symbol	Casp12
UniProt Protein Name	Caspase-12
Protein Family	Inactive caspase
UniProt Gene Name	Casp12
UniProt Synonym Gene Names	CASP-12
UniProt Entry Name	CASPC_RAT
NCBI Protein Information	caspase-12; CASP-12
NCBI Summary for Casp12	cysteine-aspartic acid protease (caspase); involved with the terminal stage of apoptosis [RGD, Feb 2006]
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.- Cellular Component: intracellular membrane-bound organelle; endoplasmic reticulum; intracellular; nucleus; cytosol Molecular Function: protein binding; protease binding; cysteine-type endopeptidase activity; endopeptidase activity; cysteine-type peptidase activity Biological Process: response to drug; response to nicotine; response to inorganic substance; response to anoxia; positive regulation of apoptosis; apoptosis; response to iron(III) ion; unfolded protein response; positive regulation of caspase activity; response to organic nitrogen; proteolysis; regulation of apoptosis; protein autoprocessing; response to ethanol; regulation of inflammatory response; response to cold; aging
Research Articles on Casp12	**1.** Activation of endoplasmic reticulum stress increases apoptosis and expression of CASP12 in the renal cortex of diabetic rats.
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