CASP12 Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	CASP12, Blocking Peptide
Full Product Name	CASP12 Antibody (Center) Blocking peptide
Product Gene Name	CASP12 blocking peptide
Product Synonym Names	Inactive caspase-12; CASP-12; CASP12
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	CASP12 peptide (MBS9218805) is used for blocking the activity of CASP12 antibody (MBS9211511)
Molecular Weight	29,399 Da
OMIM	608633
Tissue Location	Detected in heart, kidney, liver, lung, pancreas, small intestine, spleen, stomach, thymus and testis
Related Product Information for CASP12 blocking peptide	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.
Other Notes	Small volumes of CASP12 blocking peptide 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	MBS9218805 is a blocking peptide targeting CASP12. Also known as CASP12 Antibody (Center) Blocking peptide.

ADDITIONAL DETAILS

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

NCBI GI #	395398427
NCBI GeneID	100506742
NCBI Accession #	Q6UXS9.2
UniProt Primary Accession #	Q6UXS9
UniProt Secondary Accession #	D6RBN7
UniProt Related Accession #	Q6UXS9
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: endoplasmic reticulum Biological Process: regulation of inflammatory response
Research Articles on CASP12	**1.** Endoplasmic reticulum stress related factor ATF6 and caspase-12 trigger apoptosis in neonatal hypoxic-ischemic encephalopathy.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/casp12/9218805