CST9 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	CST9, Blocking Peptide
Full Product Name	CST9 Antibody (C-term) Blocking peptide
Product Gene Name	CST9 blocking peptide
Product Synonym Gene Name	CLM
Product Synonym Names	Cystatin-9; Cystatin-like molecule; CST9; CLM
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	CST9 peptide (MBS9218095) is used for blocking the activity of CST9 antibody (MBS9206480)
Molecular Weight	18,135 Da
OMIM	616543
Cellular Location	Secreted. Note: May be targeted through the Golgi via the secretory pathway
Tissue Location	Expressed in heart, placenta, lung, liver, skeletal muscle and pancreas. Not expressed in brain. Barely expressed in tumor cell lines except for breast adenocarcinoma MCF-7 cells and U-251MG cells.
Related Product Information for CST9 blocking peptide	MBS9218095 is a blocking peptide targeting CST9. Also known as CST9 Antibody (C-term) Blocking peptide. May play a role in hematopoietic differentiation or inflammation.
Other Notes	Small volumes of CST9 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CST9. It may not necessarily be applicable to this product.

NCBI GI #	226529477
NCBI GeneID	128822
NCBI Accession #	NP_001008693.2
UniProt Primary Accession #	Q5W186
UniProt Secondary Accession #	Q8TD53; B2RP76
UniProt Related Accession #	Q5W186
GenBank Nucleotide #	NM_001008693.2
NCBI Official Full Name	cystatin-9
NCBI Official Synonym Full Names	cystatin 9
NCBI Official Symbol	CST9
NCBI Official Synonym Symbols	CLM; CTES7A
UniProt Protein Name	Cystatin-9

UniProt Synonym Protein Names	Cystatin-like molecule
Protein Family	Chromosome stability protein
UniProt Gene Name	CST9
UniProt Entry Name	CST9_HUMAN
NCBI Protein Information	cystatin-9
NCBI Summary for CST9	The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. The type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in a variety of human fluids and secretions, where they appear to provide protective functions. The cystatin locus on chromosome 20 contains the majority of the type 2 cystatin genes and pseudogenes. This gene is located in the cystatin locus and encodes a secreted protein that may play a role in hematopoietic differentiation or inflammation. [provided by RefSeq, Jul 2008]
UniProt Comments for CST9	CST9: May play a role in hematopoietic differentiation or inflammation. Belongs to the cystatin family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 20p11.21 Biological Process: antimicrobial humoral response
Research Articles on CST9	**1.** The current report is the first to show the immunomodulatory and antimicrobial functions of rCST9 against Francisella tularensis.
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