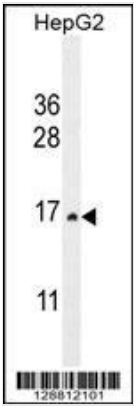
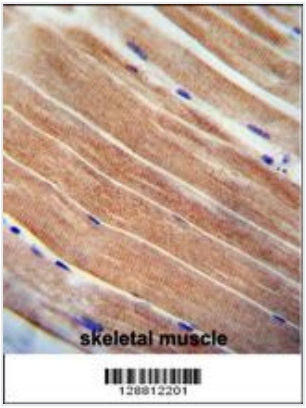
CST9 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

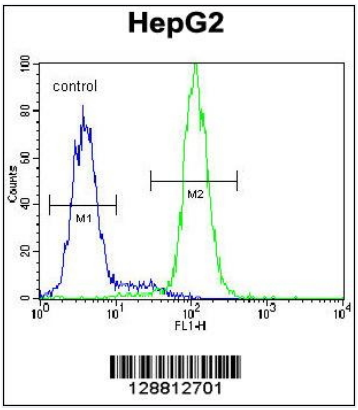
Product Name	CST9, Polyclonal Antibody
Full Product Name	CST9, CT (CST9, CLM, Cystatin-9, Cystatin-like molecule) (APC)
Product Gene Name	anti-CST9 antibody
Product Synonym Names	CST9; CLM; Cystatin-9; Cystatin-like molecule
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	18,135 Da
3D Structure	ModBase 3D Structure for Q5W186
Immunogen	CST9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 99-127 amino acids from the C-terminal region of human CST9.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CST9 antibody	Antibodies; Protease Inhibitors
Applications Tested/Suitable for anti-CST9 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-CST9 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-CST9 antibody	MBS6289496 is an antibody targeting CST9. Also known as CST9, CT (CST9, CLM, Cystatin-9, Cystatin-like molecule) (APC). Reactive in Human. Host: Rabbit. May play a role in hematopoietic differentiation or inflammation.
Other Notes	Small volumes of anti-CST9 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.



Western Blot (WB) of anti-CST9 antibody
CST9 Antibody (C-term) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the CST9 antibody detected the CST9 protein (arrow).



Immunohistochemistry (IHC) of anti-CST9 antibody
CST9 antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CST9 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-CST9 antibody
CST9 Antibody (C-term) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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 (testatin)
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 Synonym Gene Names	CLM
UniProt Entry Name	CST9_HUMAN
NCBI Protein Information	cystatin-9; cystatin-like molecule
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 Cellular Component: extracellular region Molecular Function: cysteine protease inhibitor activity
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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