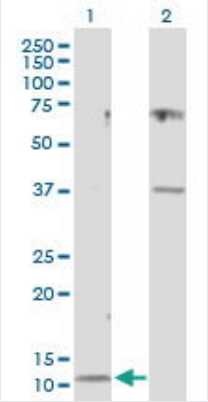
Cystatin C (CST3) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cystatin C (CST3), Polyclonal Antibody
Full Product Name	Cystatin C (Cystatin-C, Cystatin-3, Gamma-trace, Neuroendocrine Basic Polypeptide, Post-gamma-globulin, CST3) (AP)
Product Gene Name	anti-CST3 antibody
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 Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CST3.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only pri maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	15,799 Da
OMIM	gene 611953
3D Structure	ModBase 3D Structure for P01034
Immunogen	Full length human CST3, aa1-146 (NP_000090.1).
Immunogen Sequence	MAGPLRAPLLLLAILAVALAVSPAAGSSPGKPPRLVGGPMDASVEEEGVRRALDFAVGEYNKASNDMYHSRALQVVRARKQIVAGVNYFLDVELGRTTC
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-CST3 antibody	Antibodies; Protease Inhibitors
Applications Tested/Suitable for anti-CST3 antibody	Western Blot (WB)
Application Notes for anti-CST3 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CST3 antibody	A non-glycosylated secreted protein and member of the type 2 cystatin superfamily, which acts as a potent inhibitor of both endogenous and pathogeni is present in a variety of biological fluids. Changes in cystatin C have been associated with a number of cardiovascular diseases, including atherosclero levels can be used as a more sensitive marker than creatinine for determining glomerular filtration rate (GFR) in the kidneys.

Other Notes	Small volumes of anti-CST3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa 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 CST3 purchase	MBS6375589 is an antibody targeting CST3. Also known as Cystatin C (Cystatin-C, Cystatin-3, Gamma-trace, Neuroendocrine Basic Polypeptide, Pos



Western Blot (WB) of anti-CST3 antibody
Western Blot analysis of CST3 expression in transfected 293T cell line by CST3 polyclonal antibody. Lane 1: CST3 transfected lysate (15.8kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CST3. It may not necessarily be applicable to this product.

NCBI GI #	4503107
NCBI GeneID	1471
NCBI Accession #	NP_000090.1
UniProt Primary Accession #	P01034
UniProt Secondary Accession #	Q6FGW9; B2R5J9; D3DW42
UniProt Related Accession #	P01034
GenBank Nucleotide #	NM_000099.2
NCBI Official Full Name	cystatin-C
NCBI Official Synonym Full Names	cystatin C
NCBI Official Symbol	CST3
NCBI Official Synonym Symbols	ARMD11
UniProt Protein Name	Cystatin-C
UniProt Synonym Protein Names	Cystatin-3; Gamma-trace; Neuroendocrine basic polypeptide; Post-gamma-globulin
Protein Family	Cystatin
UniProt Gene Name	CST3
UniProt Entry Name	CYTC_HUMAN
NCBI Protein Information	cystatin-C; bA218C14.4 (cystatin C); cystatin 3; cystatin-3; gamma-trace; neuroendocrine basic polypeptide; post-gamma-globulin

NCBI Summary for CST3	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 the most abundant extracellular inhibitor of cysteine proteases, which is found in high concentrations in biological fluids and is expressed in virtually all organs of the body. A mutation in this gene has been associated with amyloid angiopathy. Expression of this protein in vascular wall smooth muscle cells is severely reduced in both atherosclerotic and aneurysmal aortic lesions, establishing its role in vascular disease. In addition, this protein has been shown to have an antimicrobial function, inhibiting the replication of herpes simplex virus. Alternative splicing results in multiple transcript variants encoding a single protein. [provided by RefSeq, Nov 2014]
UniProt Comments for CST3	CST3: As an inhibitor of cysteine proteinases, this protein is thought to serve an important physiological role as a local regulator of this enzyme activity. Defects in CST3 are the cause of amyloidosis type 6 (AMYL6); also known as hereditary cerebral hemorrhage with amyloidosis (HCHWA), cerebral amyloid angiopathy (CAA) or cerebroarterial amyloidosis Icelandic type. AMYL6 is a hereditary generalized amyloidosis due to cystatin C amyloid deposition. Cystatin C amyloid accumulates in the walls of arteries, arterioles, and sometimes capillaries and veins of the brain, and in various organs including lymphoid tissue, spleen, salivary glands, and seminal vesicles. Amyloid deposition in the cerebral vessels results in cerebral amyloid angiopathy, cerebral hemorrhage and premature stroke. Cystatin C levels in the cerebrospinal fluid are abnormally low. Genetic variations in CST3 are associated with age- related macular degeneration type 11 (ARMD11). ARMD is a multifactorial eye disease and the most common cause of irreversible vision loss in the developed world. In most patients, the disease is manifest as ophthalmoscopically visible yellowish accumulations of protein and lipid that lie beneath the retinal pigment epithelium and within an elastin-containing structure known as Bruch membrane. Belongs to the cystatin family. Protein type: Secreted, signal peptide; Inhibitor; Secreted Chromosomal Location of Human Ortholog: 20p11.21 Cellular Component: extracellular space; extracellular region Molecular Function: protein binding; protease binding; beta-amyloid binding; endopeptidase inhibitor activity; cysteine protease inhibitor activity Biological Process: negative regulation of proteolysis; fibril organization and biogenesis; negative regulation of peptidase activity; defense response; regulation of tissue remodeling Disease: Macular Degeneration, Age-related, 11; Cerebral Amyloid Angiopathy, Cst3-related
Research Articles on CST3	**1.** The pentapeptide LQVVR plays a pivotal role in human cystatin C fibrillization.
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