Cystatin C (CST3) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cystatin C (CST3), Polyclonal Antibody
Full Product Name	Cystatin C, Human Antibody
Product Gene Name	anti-CST3 antibody
Clonality	Polyclonal
Host	Rabbit
Form/Format	Liquid PBS, pH 7.4
Purity/Purification	>90% Purified
Preparation and Storage	Short Term (? 2 weeks): 2-8 degree C. Long Term: -20 degree C. Avoid repeated freezing and thawing.
Molecular Weight	15,799 Da
OMIM	105150
3D Structure	ModBase 3D Structure for P01034
Product Categories/Family for anti-CST3 antibody	Serum Proteins
Applications Tested/Suitable for anti-CST3 antibody	ELISA (EIA)
Related Product Information for anti-CST3 antibody	MBS568498 is an antibody targeting CST3. Also known as Cystatin C, Human Antibody. Host: Rabbit.
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 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 CST3. It may not necessarily be applicable to this product.

NCBI GI #	755738
NCBI GeneID	1471
NCBI Accession #	CAA29096.1
UniProt Primary Accession #	P01034
UniProt Secondary Accession #	Q6FGW9; B2R5J9; D3DW42
UniProt Related Accession #	P01034
NCBI Official Full Name	cystatin C
NCBI Official Synonym Full Names	cystatin C
NCBI Official Symbol	CST3
NCBI Official Synonym Symbols	ARMD11; HEL-S-2

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
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; Secreted, signal peptide; Inhibitor Chromosomal Location of Human Ortholog: 20p11.21 Cellular Component: extracellular matrix; extracellular region; extracellular space Molecular Function: beta-amyloid binding; cysteine protease inhibitor activity; endopeptidase inhibitor activity; identical protein binding; protease binding; protein binding Biological Process: cellular protein metabolic process; defense response; fibril organization and biogenesis; negative regulation of peptidase activity; negative regulation of proteolysis; regulation of tissue remodeling Disease: Cerebral Amyloid Angiopathy, Cst3-related; Macular Degeneration, Age-related, 11
Research Articles on CST3	**1.** Chronic kidney disease is a comorbidity that occurs frequently in COPD patients. Japanese COPD patients should preferably be evaluated based on creatinine in combination with cystatin C.
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