

ARG10617 anti-CST3 / Cystatin C antibody [Cyst13]

Package: 100 µg, 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [Cyst13] recognizes CST3 / Cystatin C
Tested Reactivity	Hu
Tested Application	ELISA, FLISA, WB
Specificity	Cystatin C
Host	Mouse
Clonality	Monoclonal
Clone	Cyst13
Isotype	IgG1
Target Name	CST3 / Cystatin C
Species	Human
Immunogen	Human Cystatin C
Conjugation	Un-conjugated
Alternate Names	Cystatin-C; Neuroendocrine basic polypeptide; Post-gamma-globulin; ARMD11; Cystatin-3; Gamma-trace

Application Instructions

Application table	Application	Dilution
	ELISA	Assay-dependent
	FLISA	200 ng/ml (Detection Mab)
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4) and 0.1% Sodium azide
Preservative	0.1% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

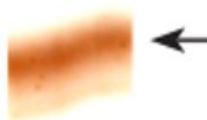
Bioinformation

Database links	GeneID: 1471 Human Swiss-port # P01034 Human
Gene Symbol	CST3
Gene Full Name	cystatin C
Background	<p>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]</p>
Function	As an inhibitor of cysteine proteinases, this protein is thought to serve an important physiological role as a local regulator of this enzyme activity. [UniProt]
Highlight	<p>Related Antibody Duos and Panels: ARG30282 Cystatin C ELISA Antibody Duo Related products: CST3 antibodies; CST3 ELISA Kits; CST3 Duos / Panels; Anti-Mouse IgG secondary antibodies;</p>
Calculated Mw	16 kDa
PTM	The Thr-25 variant is O-glycosylated with a core 1 or possibly core 8 glycan. The signal peptide of the O-glycosylated Thr-25 variant is cleaved between Ala-20 and Val-21.

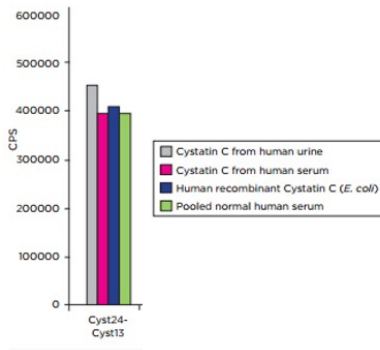
Images

ARG10617 anti-CST3 / Cystatin C antibody [Cyst13] WB image

Western blot: Detection of Human cystatin C after Tricine-SDS-PAGE in reducing conditions. 0.2 µg of Cystatin C purified from Human urine stained with ARG10617 anti-CST3 / Cystatin C antibody [Cyst13].

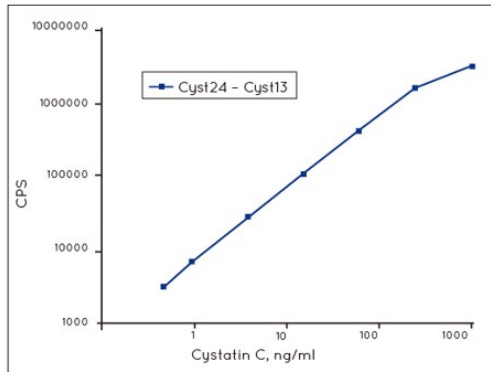


ARG10617 anti-CST3 / Cystatin C antibody [Cyst13] FLISA image



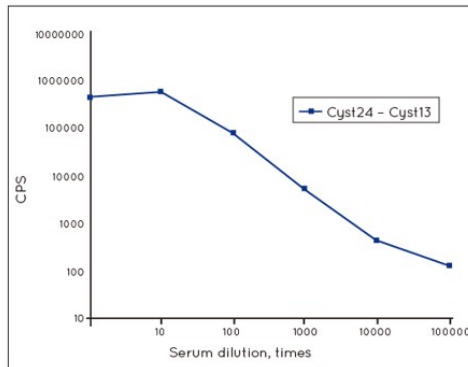
FLISA: Immunochemical properties of three forms of cystatin C protein, in comparison with antigen from pooled normal Human serum. Cystatin C preparations (at concentration 10 ng/ml) and diluted pooled normal Human serum were analyzed. FLISA was used to measure cystatin C: Capture MAb: ARG10618 anti-Cystatin C antibody [Cyst24]. Detection MAb: ARG10617 anti-CST3 / Cystatin C antibody [Cyst13].

ARG10617 anti-CST3 / Cystatin C antibody [Cyst13] FLISA image



FLISA: Calibration curve of the best immunoassays. One-step fluoroimmunoassay in streptavidin coated plates. Capture MAb ARG10618 anti-Cystatin C antibody [Cyst24] is biotinylated (200 ng/well). Detection MAb ARG10617 anti-CST3 / Cystatin C antibody [Cyst13] is Eu3+ - labeled (200 ng/ml). Incubation volume 100 µl. time: 30 min at RT.

ARG10617 anti-CST3 / Cystatin C antibody [Cyst13] FLISA image



FLISA: Titration curve of pooled normal Human serum in ARG10618 anti-Cystatin C antibody [Cyst24] - ARG10617 anti-CST3 / Cystatin C antibody [Cyst13] (capture - detection) sandwich fluoroimmunoassays.