ARG54135
anti-CST3 / Cystatin C antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes CST3 / Cystatin C
Tested Reactivity	Hu
Tested Application	ELISA
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Target Name	CST3 / Cystatin C
Species	Human
Immunogen	Recombinant human cystatin c protein.
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	0.5 µg/ml

Application Note: Sandwich ELISA (Capture antibody - Detection antibody):
ARG54134 (4 µg/ml) - ARG54135 (0.5 µg/ml)

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: 13 kDa

Properties

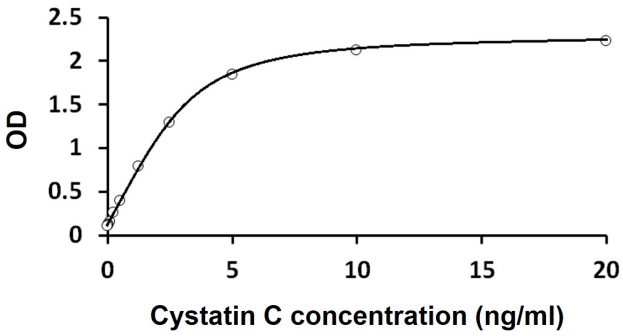
Form	Liquid
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 1471 Human

	Swiss-port # P01034 Human
Gene Symbol	CST3
Gene Full Name	cystatin C
Background	Cystatin C or cystatin 3 (formerly gamma trace, post-gamma-globulin or neuroendocrine basic polypeptide), a protein encoded by the CST3 gene,is mainly used as a biomarker of kidney function. Recently, it has been studied for its role in predicting new-onset or deteriorating cardiovascular disease. It also seems to play a role in brain disorders involving amyloid (a specific type of protein deposition), such as Alzheimer´s disease. In humans, all cells with a nucleus (cell core containing the DNA) produce cystatin C as a chain of 120 amino acids. It is found in virtually all tissues and body fluids. It is a potent inhibitor of lysosomal proteinases (enzymes from a special subunit of the cell that break down proteins) and probably one of the most important extracellular inhibitors of cysteine proteases (it prevents the breakdown of proteins outside the cell by a specific type of protein degrading enzymes). Cystatin C belongs to the type 2 cystatin gene family.
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]
Research Area	Cell Biology and Cellular Response antibody; Cell Death antibody; Controls and Markers antibody; Developmental Biology antibody
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



ARG54135 anti-CST3 / Cystatin C antibody ELISA image

Standard Curve: Capture antibody: ARG54134 anti-CST3 / Cystatin C antibody at 4 µg/ml; Detector antibody: ARG54135 anti-CST3 / Cystatin C antibody at 0.5 µg/ml. These products result of a typical standard run with optical density reading at 450 nm.