ARG83833
Human CST3 / Cystatin C ELISA Kit

Package: 96 wells
Store at: 4°C, -20°C

Summary

Product Description	ARG83833 Human CST3 / Cystatin C ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CST3 / Cystatin C in serum, plasma and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	CST3 / Cystatin C
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/mL
Sample Type	serum, plasma and cell culture supernatants.
Standard Range	62.5 - 4000 pg/mL
Sample Volume	10 µL
Alternate Names	CST3; Cystatin C; Neuroendocrine Basic Polypeptide; Post-Gamma-Globulin; Gamma-Trace; Cystatin-C; Cystatin C (Amyloid Angiopathy And Cerebral Hemorrhage); Epididymis Secretory Protein Li 2; BA218C14.4 (Cystatin C); Cystatin 3; Cystatin-3; HEL-S-2; ARMD11

Application Instructions

Assay Time	4 hours

Properties

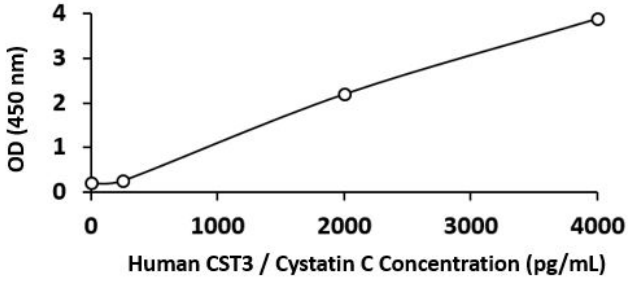
Form	96 well
Storage instruction	Store the kit at 4°C, -20°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CST3
Gene Full Name	cystatin C
Background	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.
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.
PTM	Disulfide bond, Glycoprotein, Phosphoprotein
Cellular Localization	Amyloid, Secreted

Images



ARG83833 Human CST3 / Cystatin C ELISA Kit standard curve image

ARG83833 Human CST3 / Cystatin C ELISA Kit results of a typical standard run with optical density reading at 450 nm.