

ARG81705 Mouse CST3 / Cystatin C ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81705-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81705-002	Standard	2 X 20 ng/vial	4°C
ARG81705-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81705-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81705-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81705-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81705-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81705-008	25X Wash buffer	20 ml	4°C
ARG81705-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81705-010	STOP solution	10 ml (Ready to use)	4°C
ARG81705-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81705 Mouse CST3 / Cystatin C ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse CST3 / Cystatin C in serum, plasma (heparin, EDTA), urine and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	CST3 / Cystatin C
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	156 pg/ml
Sample Type	Serum, plasma (heparin, EDTA), urine and cell culture supernatants.
Standard Range	312 - 20000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.9%; Inter-Assay CV: 6.8%
Alternate Names	Cystatin-C; Neuroendocrine basic polypeptide; Post-gamma-globulin; ARMD11; Cystatin-3; Gamma-trace

Application Instructions

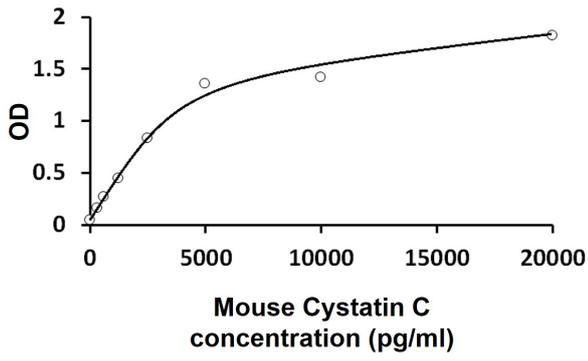
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°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. [provided by RefSeq, Nov 2014]
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	Related products: Cystatin antibodies ; Cystatin ELISA Kits ; Cystatin Duos / Panels ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
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. [UniProt]



ARG81705 Mouse CST3 / Cystatin C ELISA Kit standard curve image

ARG81705 Mouse CST3 / Cystatin C ELISA Kit results of a typical standard run with optical density reading at 450 nm.