

Rat cystatin C ELISA Kit | CST3 elisa kit

Rat Cystatin C, Cys-C ELISA Kit

CATALOG #
AAA80475

REACTIVITY
Rat

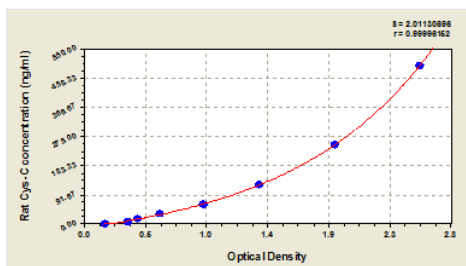
PRODUCT SYNONYMS

cystatin C; Rat Cystatin C; Cys-C ELISA Kit; ARMD11; MGC117328; OTTHUMP00000164181; OTTHUMP00000164182; bA218C14.4 (cystatin C) ; cystatin 3; gamma-trace; neuroendocrine basic polypeptide; post-gamma-globulin; CST3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat CST3. No significant cross-reactivity or interference between Rat CST3 and analogues was observed.
Sequence Length	148
Samples	Serum, plasma, cell culture supernates, tissue homogenates
Detection Range	7.8 ng/ml-500 ng/ml
Sensitivity	1.95 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CST3 elisa kit	Introduction: CystatinC 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 bodily 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. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to Cys-C. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for Cys-C and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain Cys-C, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of Cys-C in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	130485692
NCBI GeneID	100009450
NCBI Accession #	NP_001076175.1
NCBI GenBank Nucleotide #	NM_001082706.1
UniProt Accession #	O97862
Molecular Weight	16,346 Da
NCBI Official Full Name	cystatin-C
NCBI Official Symbol	CST3
NCBI Protein Information	cystatin-C; cystatin-3
UniProt Protein Name	Cystatin-C
UniProt Gene Name	CST3
UniProt Entry Name	CYTC_RABIT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.