

Human Cystatin C ELISA Kit | NGAL elisa kit

Cystatin C: Human, rapid (ELISA)

CATALOG #
AAA60545

REACTIVITY
Human

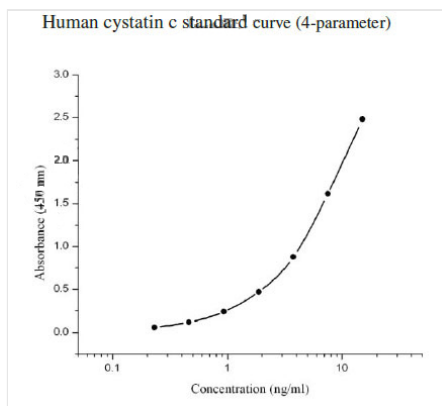
PRODUCT SYNONYMS

Cystatin C; Cystatin C: Human; rapid (ELISA); Rapid human cystatin C; NGAL elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The antibodies used in this assay are specific to human cystatin c and do not cross-react with mouse and rat cystatin c, and other cytokine or hormone molecules.
Sequence Length	146
Samples	Serum, plasma and urine samples
Assay Type	Quantitative Sandwich
Sensitivity	0.23 ng/ml
Intra-assay Precision	Three samples of known concentration were tested 12 times on one plate.
Inter-assay Precision	Three samples of known concentration were tested in 10 separate assays.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NGAL elisa kit	Intended Uses: This Rapid Human Cystatin C ELISA kit is designed for quantification of human cystatin c in serum, plasma and urine samples. Principle of the Assay: This assay is a sandwich ELISA designed for the quantitative detection of human cystatin c in samples in 1 hour. The immunoplate is pre-coated with antibody specific to human cystatin c. Standards and samples are pipetted into the wells and any human cystatin c present is sandwiched by the immobilised antibody and a second horseradish peroxidase (HRP)-linked antibody specific to human cystatin c that is co-incubated with the samples. After wash step to remove any unbound substances, the HRP substrate solution is added and colour develops in proportion to the amount of human cystatin c bound initially. The assay is stopped and the optical density of the wells determined using a micro-plate reader. Since the increases in absorbance are directly proportional to the amount of captured human cystatin c, the unknown sample concentration can be interpolated from a reference curve included in each assay. Background/Introduction: Human cystatin c (or cystatin 3), which is composed of 120 amino acid residues, belongs to the cystatins superfamily that inactivates lysosomal cysteine proteinases. As a strongly cationic and low-molecular weight (13.4 kDa) protein, it is almost freely filtered across the glomerular membrane, and is mainly used as a biomarker of kidney function. A growing body of evidence suggests that cystatin c is a more reliable biomarker of glomerular filtration rate than creatinine [1-3]. In addition to kidney disease, altered serum levels of cystatin c are associated with several types of cardiovascular disease, including myocardial infarction, stroke, heart failure, peripheral arterial disease and metabolic syndrome [4-7]. It also seems to play a role in brain disorders involving amyloid, such as Alzheimer's disease [8, 9]. Furthermore, Cystatin c has also been investigated as a prognostic marker in several forms of cancer [11, 12].
References	1. Cystatin C: an emerging biomarker in cardiovascular disease. Angelidis C, et al. Curr Top Med Chem. 2013;13(2):164-79. 2. Update on cystatin C: incorporation into clinical practice. Shlipak MG, Mattes MD, Peralta CA. Am J Kidney Dis. 2013 62(3):595-603.

NCBI AND UNIPROT INFORMATION

NCBI GI #	755738
NCBI GeneID	1471
NCBI Official Full Name	cystatin C
NCBI Official Synonym Full Names	cystatin C
NCBI Official Symbol	CST3
NCBI Official Synonym Symbols	ARMD11; HEL-S-2
NCBI Protein Information	cystatin-C

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/ngal-human-elisa-kits/cystatin-c/60545>