

## Mouse Cystatin C ELISA Kit | CST3 elisa kit

Mouse Cystatin C PicoKine ELISA Kit

CATALOG #  
**AAA45356**

REACTIVITY  
**Mouse**

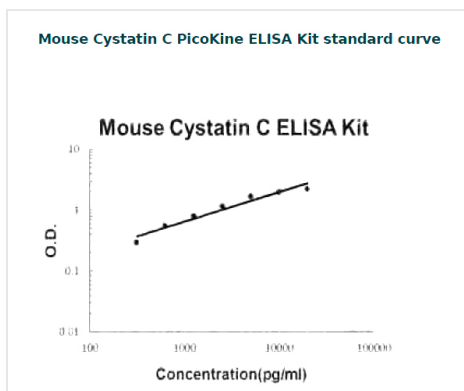
### PRODUCT SYNONYMS

Cystatin C; Mouse Cystatin C PicoKine ELISA Kit; Cystatin-C; cystatin C; Cst3; Cystatin-3; CYTC\_HUMAN; Gamma-trace; Neuroendocrine basic polypeptide; Post-gamma-globulin; CST3 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                 |
| Specificity             | Natural and recombinant Mouse Cst3                                                                                                                    |
| Sequence Length         | 140                                                                                                                                                   |
| Samples                 | Cell culture supernatants, serum, plasma (heparin, edta) and urine                                                                                    |
| Detection Range         | 312 pg/ml - 20,000 pg/ml                                                                                                                              |
| Sensitivity             | <10 pg/ml                                                                                                                                             |
| Intra-assay Precision   | Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.     |
| Inter-assay Precision   | Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision. |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)                            |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Related Product Information for CST3 elisa kit | <p>Principle of the Assay: The Picokine™ Mouse Cst3 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse Cst3 with a 96-well strip plate that is pre-coated with antibody specific for Cst3. The detection antibody is a biotinylated antibody specific for Cst3. The capture antibody is monoclonal antibody from rat and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Mouse Cst3 with immunogen: Expression system for standard: NS0; Immunogen sequence: M1-A140. The kit is analytically validated with ready-to-use reagents. To measure Mouse Cst3, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mouse Cst3 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Cst3 in the sample.</p> <p>Background/Introduction: Cystatin C or cystatin 3 (formerly gamma trace, post-gamma-globulin or neuroendocrine basic polypeptide), a protein encoded by the CST3 gene, was originally described as a constituent of normal cerebrospinal fluid (CSF) and of urine from patients with renal failure. Cystatin 3 has a low molecular weight (approximately 13.3 kilodaltons), and it is removed from the bloodstream by glomerular filtration in the kidneys. In mice, 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. Cystatin C, which belongs to the type II cystatin gene family, 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). Moreover, cystatin C is involved in network reorganization in the epileptic dentate gyrus.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                    |
|----------------------------------|------------------------------------|
| NCBI GI #                        | 1345935                            |
| NCBI GeneID                      | 13010                              |
| UniProt Accession #              | P21460; Q544Y0                     |
| Molecular Weight                 | 15,531 Da                          |
| NCBI Official Full Name          | Cystatin-C                         |
| NCBI Official Synonym Full Names | cystatin C                         |
| NCBI Official Symbol             | Cst3                               |
| NCBI Official Synonym Symbols    | CysC                               |
| NCBI Protein Information         | cystatin-C; cystatin 3; cystatin-3 |
| UniProt Protein Name             | Cystatin-C                         |
| UniProt Gene Name                | Cst3                               |
| UniProt Entry Name               | CYTC_MOUSE                         |

**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.