**Overview**

**Product name**  
Mouse Cystatin C ELISA Kit

**Detection method**  
Colorimetric

**Sample type**  
Cell culture supernatant, Serum, Plasma, Other biological fluids, Tissue Extracts

**Assay type**  
Sandwich (quantitative)

**Sensitivity**  
< 10 pg/ml

**Range**  
312 pg/ml - 20000 pg/ml

**Assay duration**  
Multiple steps standard assay

**Species reactivity**  
Reacts with: Mouse

**Product overview**

Abcam’s mouse Cystatin C *in vitro* ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the accurate quantitative measurement of mouse Cystatin C in cell culture supernatants, serum, plasma (heparin, EDTA) and urine.

A Cystatin C specific rat monoclonal antibody has been precoated onto 96-well plates. Standards and test samples are added to the wells and incubated. A biotinylated detection polyclonal antibody from goat, specific for Cystatin C is then added followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex is added and unbound conjugates are washed away with PBS or TBS buffer. TMB is then used to visualize the HRP enzymatic reaction. TMB is catalyzed by HRP to produce a blue color product that changes into yellow after adding acidic stop solution. The density of yellow coloration is directly proportional to the mouse Cystatin C amount of sample captured in plate.

**Platform**  
Microplate

**Properties**

**Storage instructions**  
Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>Identifier</th>
<th>1 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABC Diluent Buffer</td>
<td>Blue Cap</td>
<td>1 x 12ml</td>
</tr>
<tr>
<td>Antibody Diluent Buffer</td>
<td>Green Cap</td>
<td>1 x 12ml</td>
</tr>
<tr>
<td>Anti-mouse Cystatin C antibody Microplate (12 x 8 wells)</td>
<td>1 unit</td>
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</tbody>
</table>
As an inhibitor of cysteine proteinases, this protein is thought to serve an important physiological role as a local regulator of this enzyme activity.

Expressed in submandibular and sublingual saliva but not in parotid saliva (at protein level). Expressed in various body fluids, such as the cerebrospinal fluid and plasma. Expressed in highest levels in the epididymis, vas deferens, brain, thymus, and ovary and the lowest in the submandibular gland.

Defects in CST3 are the cause of amyloidosis type 6 (AMYL6) [MIM:105150]; also known as hereditary cerebral hemorrhage with amyloidosis (HCHWA), cerebral amyloid angiopathy (CAA) or cerebroarterial amyloidosis Icelandic type. AMYL6 is a hereditary generalized amyloidosis due to cystatin C amyloid deposition. Cystatin C amyloid accumulates in the walls of arteries, arterioles, and sometimes capillaries and veins of the brain, and in various organs including lymphoid tissue, spleen, salivary glands, and seminal vesicles. Amyloid deposition in the cerebral vessels results in cerebral amyloid angiopathy, cerebral hemorrhage and premature stroke. Cystatin C levels in the cerebrospinal fluid are abnormally low.

Genetic variations in CST3 are associated with age-related macular degeneration type 11 (ARMD11) [MIM:611953]. ARMD is a multifactorial eye disease and the most common cause of irreversible vision loss in the developed world. In most patients, the disease is manifest as ophthalmoscopically visible yellowish accumulations of protein and lipid that lie beneath the retinal pigment epithelium and within an elastin-containing structure known as Bruch membrane.

Belongs to the cystatin family.

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.

Secreted.
Representative Standard Curve using ab119590.

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