

Mouse Cationic Amino Acid Transporter 2 (CAT2) ELISA Kit | CAT2 elisa kit

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CATALOG # AAA68523	REACTIVITY Mouse
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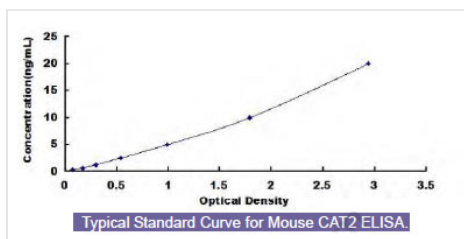
PRODUCT SYNONYMS

Cationic Amino Acid Transporter 2 (CAT2); Mouse Cationic Amino Acid Transporter 2 (CAT2) ELISA Kit; SLC7A2; ATRC2; CAT-2; HCAT2; Low Affinity Cationic Amino Acid Transporter 2; Solute Carrier Family 7 Member 2; Cationic Amino Acid Transporter; y+ System; CAT2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of CAT2. No significant cross-reactivity or interference between CAT2 and analogues was observed.
Sequence Length	658
Samples	Tissue homogenates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.312-20ng/mL
Sensitivity	<0.124ng/mL.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CAT2 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CAT2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CAT2 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of CAT2 in mouse tissue homogenates or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CAT2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CAT2. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CAT2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of CAT2 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 #	113680233
NCBI GeneID	11988
NCBI Accession #	NP_001038205.1
NCBI GenBank Nucleotide #	NM_001044740.2
UniProt Accession #	P18581; Q38RA6; Q3TB99; Q3U3R5; E9QPL9
Molecular Weight	71,786 Da
NCBI Official Full Name	cationic amino acid transporter 2 isoform 2
NCBI Official Synonym Full Names	solute carrier family 7 (cationic amino acid transporter, y+ system), member 2
NCBI Official Symbol	Slc7a2
NCBI Official Synonym Symbols	Tea; 20.5; Cat2; Atrc2; CAT-2; AI158848
NCBI Protein Information	cationic amino acid transporter 2
UniProt Protein Name	Cationic amino acid transporter 2
UniProt Gene Name	Slc7a2
UniProt Synonym Gene Names	Atrc2; Tea; TEA

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.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/cationic-amino-acid-transporter-2-cat2/68523>