

Human Cystine/Glutamate Transporter (SLC7A11) ELISA Kit | SLC7A11 elisa kit

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CATALOG #
AAA330799

REACTIVITY
Human

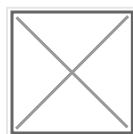
PRODUCT SYNONYMS

Cystine/Glutamate Transporter (SLC7A11); Human Cystine/Glutamate Transporter (SLC7A11) ELISA Kit; SLC7A11; CCBR1; xCT; cystine/glutamate transporter; SLC7A11 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Cystine/glutamate transporter (SLC7A11) ELISA Kit has high sensitivity and excellent specificity for detection of Human SLC7A11. No significant cross-reactivity or interference between Human SLC7A11 and analogues was observed.
Sequence Length	501
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Cystine/glutamate transporter (SLC7A11) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SLC7A11 elisa kit	Description: This Human Cystine/glutamate transporter (SLC7A11) ELISA Kit employs a two-site sandwich ELISA to quantitate SLC7A11 in samples. An antibody specific for SLC7A11 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC7A11 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC7A11 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SLC7A11 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: SLC7A11 is a member of a heteromeric Na(+)-independent anionic amino acid transport system highly specific for cystine and glutamate. In this system, designated system Xc(-), the anionic form of cystine is transported in exchange for glutamate. The deduced 502-amino acid protein had an apparent molecular mass of about 40 kD following in vitro translation in canine pancreatic microsomes. Mouse xCT was found to be extremely hydrophobic and was predicted to contain 12 membrane-spanning domains. Northern blot analysis of activated mouse macrophages detected transcripts of 12, 3.5, and 2.5 kb. Northern blot analysis of mouse tissues detected expression in brain, but not in other organs tested. The 501-amino acid XCT protein has 12 transmembrane domains and cytoplasmic N and C termini.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7657683
NCBI GeneID	23657
NCBI Accession #	NP_055146.1
NCBI GenBank Nucleotide #	NP_055146.1
UniProt Accession #	Q9UPY5
NCBI Official Full Name	cystine/glutamate transporter
NCBI Official Synonym Full Names	solute carrier family 7 member 11
NCBI Official Symbol	SLC7A11
NCBI Official Synonym Symbols	xCT; CCBR1
NCBI Protein Information	cystine/glutamate transporter
UniProt Protein Name	Cystine/glutamate transporter
UniProt Gene Name	SLC7A11
UniProt Entry Name	XCT_HUMAN

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/human-elisa-kits/cystine-glutamate-transporter-slc7a11/330799>