Mouse High affinity cationic amino acid transporter 1 (SLC7A1) ELISA Kit

Catalog No: #EK7253

Package Size: #EK7253-1 48T #EK7253-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse High affinity cationic amino acid transporter 1 (SLC7A1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	RP11-274A8.1; ATRC1; CAT-1; ERR; HCAT1; REC1L; amino acid transporter; cationic 1|ecotropic retroviral receptor
Accession No.	Q09143
Uniprot	Q09143
GeneID	11987;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.113 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate SLC7A1 in samples. An antibody specific for SLC7A1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySLC7A1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC7A1 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 SLC7A1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Susceptibility to murine ecotropic retroviruses is attributed to the binding of the virus envelope to the membrane receptor encoded by the Rec1 gene.?HCAT1?was identified as the principal transporter of the cationic amino acids, arginine, lysine, and ornithine in mouse cells. the Rec1 gene mapped to mouse chromosome 5 by analysis of murine-hamster somatic cell hybrids. Using a human cDNA obtained by homology to Rec1, Albritton et al. (1992) determined the location of the human cationic amino acid transporter by somatic cell genetics, in situ hybridization, and RFLP linkage analysis. The studies indicated that ATRC1 is located at 13q12-q14, closely linked to ATP1AL1. The CEPH consortium linkage map of chromosome 13 published by Bowcock et al. (1993) showed ATRC1 to be distal to ATP1AL1.

Note: This product is for in vitro research use only