Human B (0,+)-type amino acid transporter 1 (SLC7A9) ELISA Kit

Catalog No: #EK7248

Package Size: #EK7248-1 48T #EK7248-2 96T

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

Description

Product Name	Human B (0,+)-type amino acid transporter 1 (SLC7A9) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	BAT1; CSNU3; FLJ94301; B(0;+)-type amino acid transporter 1|bo;+ amino acid transporter|glycoprotein-associated amino acid transporter b0;+AT1|solute carrier family 7; member 9
Accession No.	P82251
Uniprot	P82251
GeneID	11136;
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:1.56-100 ng/mL

Sensitivity:0.55 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 SLC7A9 in samples. An antibody specific for SLC7A9 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySLC7A9 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC7A9 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 SLC7A9 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The SLC7A9 cDNA is polyadenylated and contains an open reading frame encoding a 487-amino acid protein. The protein, designated b(0,+)AT for b(0,+) amino acid transporter, belongs to a family of light subunits of amino acid transporters expressed in kidney, liver, small intestine, and placenta. Northern blot analysis revealed that the SLC7A9 gene was expressed as an approximately 1.9-kb transcript in these tissues. The tissue distribution of b(0,+)AT was consistent with that of a renal basic amino acid transporter (see SLC3A1, or rBAT) light subunit. As expected, b(0,+)AT brought rBAT to the plasma membrane in cotransfected COS cells. In contrast, transfection of rBAT alone resulted in the blockage of the expressed protein in the endoplasmic reticulum.

Note: This product is for in vitro research use only