

Mouse Zinc transporter 7 (SLC30A7) ELISA Kit

Catalog No: #EK7276



Package Size: #EK7276-1 48T #EK7276-2 96T

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Description

Product Name	Mouse Zinc transporter 7 (SLC30A7) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	DKFZp686M0368; ZNT7; ZnT-7; ZnTL2; zinc transporter ZnT-7 zinc transporter like 2
Accession No.	Q9JKN1
Uniprot	Q9JKN1
GeneID	66500;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.053 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 SLC30A7 in samples. An antibody specific for SLC30A7 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySLC30A7 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC30A7 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 SLC30A7 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Zinc functions as a cofactor for numerous enzymes, nuclear factors, and hormones and as an intra- and intercellular signal ion. Members of the zinc transporter (ZNT)/SLC30 subfamily of the cation diffusion facilitator family, such as SLC30A7, permit cellular efflux of zinc.The deduced proteins share 96% amino acid identity. Mouse Znt7 contains 6 transmembrane domains, a histidine-rich loop between transmembrane domains 4 and 5, cytoplasmic N and C termini, several phosphorylation sites, and an N-glycosylation site. Northern blot analysis of mouse tissues detected highest expression in liver, spleen, and small intestine. In rat epithelial and human fibroblast cell lines, ZNT7 clustered at the perinuclear region and showed punctate staining in the cytoplasm, indicative of cytoplasmic vesicle localization.

Note: This product is for in vitro research use only