

Mouse Zinc transporter 4 (SLC30A4) ELISA Kit

Catalog No: #EK7279



Package Size: #EK7279-1 48T #EK7279-2 96T

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Description

Product Name	Mouse Zinc transporter 4 (SLC30A4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	ZNT4;
Accession No.	O35149
Uniprot	O35149
GeneID	22785;
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:0.059 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 SLC30A4 in samples. An antibody specific for SLC30A4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySLC30A4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC30A4 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 SLC30A4 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Zinc is the second most abundant trace metal in the human body. It is an essential element, serving both a structural role, as in the formation of zinc fingers in DNA-binding proteins, and a catalytic role in metalloenzymes, such as pancreatic carboxypeptidases, alkaline phosphatases, various dehydrogenases, and superoxide dismutases. SLC30A4, or ZNT4, belongs to the ZNT family of zinc transporters. ZNTs are involved in transporting zinc out of the cytoplasm and have similar structures, consisting of 6 transmembrane domains and a histidine-rich cytoplasmic loop . The gene encodes a 430-amino acid protein that is homologous to Znt2 (SLC30A2) and Znt3 (SLC30A3). Znt4 was abundantly expressed in mammary epithelia and brain.

Note: This product is for in vitro research use only