

Mouse Syntaxin-1A (STX1A) ELISA Kit

Catalog No: #EK6711



Package Size: #EK6711-1 48T #EK6711-2 96T

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Description

Product Name	Mouse Syntaxin-1A (STX1A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	HPC-1; STX1; p35-1; syntaxin 1A
Accession No.	O35526
Uniprot	O35526
GeneID	20907;
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:0.057 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 STX1A in samples. An antibody specific for STX1A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySTX1A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for STX1A 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 STX1A bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Syntaxin-1A is a protein encoded by the STX1A gene.Synaptic vesicles store neurotransmitters that are released during calcium-regulated exocytosis. The specificity of neurotransmitter release requires the localization of both synaptic vesicles and calcium channels to the presynaptic active zone.

Syntaxins function in this vesicle fusion process. Syntaxins also serve as a substrate for botulinum neurotoxin type C, a metalloprotease that blocks exocytosis and has high affinity for a molecular complex that includes the alpha-latrotoxin receptor which produces explosive exocytosis .Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Note: This product is for in vitro research use only