

Rat Synaptojanin-1 (SYNJ1) ELISA Kit

Catalog No: #EK6757



Package Size: #EK6757-1 48T #EK6757-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Rat Synaptojanin-1 (SYNJ1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	INPP5G; inositol 5 -phosphatase (synaptojanin 1) synaptojanin-1; polyphosphoinositide phosphatase
Accession No.	Q62910
Uniprot	Q62910
GeneID	85238;
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:Request Information

Sensitivity:Request Information

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 SYNJ1 in samples. An antibody specific for SYNJ1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySYNJ1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SYNJ1 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 SYNJ1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Synaptojanin-1 is a phosphatidylinositol (4,5)-bisphosphate (PI(4,5)P2) that has a role in clathrin-coated pit dynamics. The authors found that synaptojanin-170, an alternatively spliced isoform of SYNJ1, binds EPS15 , a clathrin coat-associated protein. Binding was mediated by the C-terminal region of synaptojanin-170, which contains 3 asparagine-proline-phenylalanine (NPF) repeats.

This motif had been found to be the core of the binding site for the EH domains of EPS15. These findings suggested that SYNJ1 can be recruited to clathrin-coated pits via a multiplicity of interactions.These Synj1-deficient mice exhibited neurologic defects and died shortly after birth.

Note: This product is for in vitro research use only