

# Human Spectrin beta chain, brain 3 (SPTBN4) ELISA Kit



Catalog No: #EK6628

Orders: order@signalwayantibody.com

Package Size: #EK6628-1 48T #EK6628-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human Spectrin beta chain, brain 3 (SPTBN4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	KIAA1642; QV; SPNB4; SPTBN3; betaIV spectrin
Accession No.	Q9H254
Uniprot	Q9H254
GeneID	57731;
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:0.055 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 SPTBN4 in samples. An antibody specific for SPTBN4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySPTBN4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SPTBN4 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 SPTBN4 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Spectrin is an actin crosslinking and molecular scaffold protein that links the cell membrane to the actin cytoskeleton, and functions in the determination of cell shape, arrangement of transmembrane proteins, and organization of organelles. It is composed of two antiparallel dimers of alpha- and beta- subunits.

SPTbn4 is one member of a family of beta-spectrin genes. The encoded protein localizes to the nuclear matrix, PML nuclear bodies, and cytoplasmic vesicles. A highly similar gene in the mouse is required for localization of specific membrane proteins in polarized regions of neurons. Multiple transcript variants encoding different isoforms have been found for this gene. Abundantly expressed in brain and pancreatic islets.

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Note: This product is for in vitro research use only