

## Rat Kinesin-1 heavy chain (KIF5B) ELISA Kit

Catalog No: #EK10223



Package Size: #EK10223-1 48T #EK10223-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	Rat Kinesin-1 heavy chain (KIF5B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	KINH; KNS; KNS1; UKHC; kinesin 1 (110-120kD) kinesin heavy chain
Accession No.	Q2PQA9
Uniprot	Q2PQA9
GeneID	117550;
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 KIF5B in samples. An antibody specific for KIF5B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKIF5B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KIF5B 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 KIF5B bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**Kinesins are microtubule-based motor proteins involved in the transport of organelles in eukaryotic cells. They The predicted 963-amino acid protein has 63% sequence identity to the *Drosophila* KHC. Immunoblot analysis using antibodies against squid KHC detected a 120-kD protein in CV-1 monkey kidney epithelial cells. Immunoblot analysis using antibodies against squid KHC detected a 120-kD protein in CV-1 monkey kidney epithelial cells. Immunofluorescence studies showed that KNS1 expressed in CV-1 cells had both a diffuse distribution and a filamentous staining pattern that coaligned with microtubules but not vimentin (VIM) intermediate filaments; the KNS1 N- and C-terminal domains, but not the alpha-helical rod domain, also colocalized with microtubules.

---

Note: This product is for in vitro research use only