Human Kinesin-like protein KIF1A (KIF1A) ELISA Kit

Catalog No: #EK10225

Package Size: #EK10225-1 48T #EK10225-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human Kinesin-like protein KIF1A (KIF1A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ATSV; C2orf20; DKFZp686I2094; FLJ30229; HUNC-104; MGC133285; MGC133286; UNC104; axonal transport of synaptic vesicles|kinesin; heavy chain; member 1A; homolog of mouse|tmp_locus_27
Accession No.	Q12756
Uniprot	Q12756
GeneID	547;
Storage	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. 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).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.051 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 KIF1A in samples. An antibody specific for KIF1A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKIF1A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KIF1A 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 KIF1A bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:KIF1A is a member of the kinesin family. This protein is highly similar to mouse heavy chain kinesin member 1A protein which is an anterograde motor protein that transports membranous organelles along axonal microtubules. It is thought that this protein may play a critical role in the development of axonal neuropathies resulting from impaired axonal transport. There are multiple polyadenylation sites found in this gene.

This switch-like transition for movement could be shifted to lower PtdIns(4,5)P2 concentrations by the addition of cholesterol/sphingomyelin or GM1 ganglioside/cholera toxin, conditions that produced raft-like behavior of Unc104 bound to lipid bilayers. The authors concluded that clustering of Unc104 in PtdIns(4,5)P2-containing rafts provides a trigger for membrane transport.

Note: This product is for in vitro research use only