

Human Kinesin-like protein KIF18A (KIF18A) ELISA Kit

Catalog No: #EK10226

Package Size: #EK10226-1 48T #EK10226-2 96T

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Description

Product Name	Human Kinesin-like protein KIF18A (KIF18A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DKFZp434G2226; MS-KIF18A;
Accession No.	Q8NI77
Uniprot	Q8NI77
GeneID	81930;
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:0.312-20 ng/mL
Sensitivity:0.127 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 KIF18A in samples. An antibody specific for KIF18A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKIF18A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KIF18A 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 KIF18A bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:KIF18A contains a motor domain and conserved ATP- and microtubule-binding sites, and the central region is predicted to have an alpha-helical coiled-coil, followed by a C-terminal cargo-binding domain. Nuclear localization signals, protein-protein interaction motifs such as SH3, WW, AP-1, and FHA domains, and potential sites for phosphorylation and sumoylation were also identified. KIF18A shares 84% and 81% homology with the mouse and rat homologs, respectively. Indirect immunofluorescence microscopy localized endogenous KIF18A to the nucleus, cytoplasm, and plasma membrane ruffles in preosteogenic marrow stromal cells. Punctate cytoplasmic staining of KIF18A was associated with microtubules and partial colocalization with actin.

Note: This product is for in vitro research use only