

Human Kinesin-like protein KIF14 (KIF14) ELISA Kit

Catalog No: #EK10227



Package Size: #EK10227-1 48T #EK10227-2 96T

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Description

Product Name	Human Kinesin-like protein KIF14 (KIF14) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	KIAA0042; MGC142302;
Accession No.	Q15058
Uniprot	Q15058
GeneID	9928;
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:0.126 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 KIF14 in samples. An antibody specific for KIF14 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKIF14 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KIF14 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 KIF14 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**KIF14 is a member of the kinesin superfamily of microtubule-associated motors that play important roles in intracellular transport and cell division .KIF14 protein contains an internal motor domain with a conserved catalytic core, an N-type conserved neck region, a forkhead-associated (FHA) domain, and 4 coiled-coil domains. Immunofluorescence microscopy localized KIF14 throughout the cell cycle in 293T cells and HeLa cells. During interphase, KIF14 localized to the cytoplasm and was redistributed to the nucleus upon entry into mitosis. From prophase to metaphase, KIF14 localized at developing spindle poles and associated microtubules, and during anaphase, KIF14 accumulated at the spindle midzone, where it concentrated during telophase. KIF14 localized to the contractile ring in cells ready to undergo abscission.

Note: This product is for in vitro research use only