

Rat Protein Wnt-4 (WNT4) ELISA Kit

Catalog No: #EK5825



Package Size: #EK5825-1 48T #EK5825-2 96T

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Description

Product Name	Rat Protein Wnt-4 (WNT4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	RP1-224A6.7; SERKAL; WNT-4; WNT-4 protein
Accession No.	Q9QXQ5
Uniprot	Q9QXQ5
GeneID	84426;
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:0.054 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 WNT4 in samples. An antibody specific for WNT4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyWNT4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for WNT4 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 WNT4 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:WNT5A is a member of the WNT gene family. It encodes a protein which shows 98%, 98% and 87% amino acid identity to the mouse, rat and the xenopus Wnt5A protein, respectively. The experiments performed in *Xenopus laevis* embryos identified that human frizzled-5 (hFz5) is the receptor for the Wnt5A ligand and the Wnt5A/hFz5 signaling mediates axis induction. In the presence of a chemokine gradient, this Wnt-mediated receptor-actin-myosin polarity structure accumulates asymmetrically at the cell periphery, where it triggers membrane contractility and nuclear movement in the direction of membrane retraction. The process requires endosome trafficking, is associated with multivesicular bodies, and is regulated by Wnt5a through the small guanosine triphosphates Rab4 and RhoB.

Note: This product is for in vitro research use only