

Rat Low-density lipoprotein receptor-related protein 4 (LRP4) ELISA Kit



Catalog No: #EK10039

Orders: order@signalwayantibody.com

Package Size: #EK10039-1 48T #EK10039-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Rat Low-density lipoprotein receptor-related protein 4 (LRP4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	KIAA0816; LRP10; MEGF7; low-density lipoprotein receptor-related protein 4 multiple epidermal growth factor-like domains 7
Accession No.	Q9QYP1
Uniprot	Q9QYP1
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:

Sensitivity:

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: Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate LRP4 in samples. An antibody specific for LRP4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any LRP4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LRP4 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 LRP4 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview: Proteins with EGF-like domains often consist of more than 1,000 amino acids, have multiple copies of the EGF-like domain, and contain additional domains known to be involved in specific protein-protein interactions. The predicted partial LRP4 protein contains 2 EGF-like domains, a calcium binding-type EGF-like domain, 3 LDL receptor-type EGF-like domains, 4 YWTD spacer regions, a transmembrane domain, a cytoplasmic NPXY motif, which is required for clustering and internalization of LDL receptors, and a cytoplasmic tSXV motif, which anchors proteins with a PDZ domain. The sequence and domain organization of LRP4 shows significant similarities to those of members of the LDL receptor family. Northern blot analysis detected rat *Megf7* expression in several regions of the brain.

Note: This product is for in vitro research use only