Rat Leucine-rich alpha-2 glycoprotein 1 (LRG1) ELISA Kit

Catalog No: #EK11521

Package Size: #EK11521-1 48T #EK11521-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Rat Leucine-rich alpha-2 glycoprotein 1 (LRG1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
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:12.35-1000 ng/mL

Sensitivity:4.93 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 LRG1 in samples. An antibody specific for LRG1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLRG1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LRG1 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 LRG1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The leucine-rich repeat (LRR) family of proteins, including LRG1, have been shown to be involved in protein-protein interaction, signal transduction, and cell adhesion and development. LRG1 is expressed during granulocyte differentiation. Human LRG1 was isolated from human serum by Haupt and Baudner, 1977. By sequence analysis, Takahashi et al. (1985) determined that purified LRG1 protein has 312 amino acids and an experimentally determined molecular mass of 45 kD. The LRG1 polypeptide contains 1 galactosamine and 4 glucosamine oligosaccharides attached and has 2 intrachain disulfide bonds. Leucine comprises 66 of the 312 amino acids, and LRG1 contains at least 8 24-amino acid leucine-rich repeats.

Note: This product is for in vitro research use only