

Human Low-density lipoprotein-receptor-related protein 1 (LRP-1) ELISA Kit

Catalog No: #EK11224

Orders: order@signalwayantibody.com

Package Size: #EK11224-1 48T #EK11224-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Low-density lipoprotein-receptor-related protein 1 (LRP-1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	A2MR; APOER; APR; CD91; FLJ16451; IGFBP3R; LRP; MGC88725; TGFBR5; TbetaR-V/LRP-1/IGFBP-3 receptor alpha-2-macroglobulin receptor low density lipoprotein-related protein 1 type V tgf-beta receptor
Accession No.	Q07954
Uniprot	Q07954
GeneID	4035;
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:62.5-4000 pg/mL

Sensitivity:28.4 pg/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 LRP1 in samples. An antibody specific for LRP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLRP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LRP1 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 LRP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Low density lipoprotein receptor-related protein 1 (alpha-2-macroglobulin receptor), also known as LRP1 or CD91, is a protein forming a receptor found in the plasma membrane of human cells involved in receptor-mediated endocytosis.Neurons require cholesterol to function. Cholesterol is imported into the neuron by the apolipoprotein apoE4 via LRP1 receptors on the cell surface. It is thought that a causal factor in Alzheimer's is the malfunction of this process which damages neurons by starving them of cholesterol.The protein showed strong calcium binding. Kristensen et al. (1990) and Strickland et al. (1990) demonstrated that LRP is identical to the alpha-2-macroglobulin (A2M) receptor (A2MR). Like the mannose-6-phosphate receptor, the A2MR/LRP molecule is probably bifunctional.

Note: This product is for in vitro research use only