

Mouse Low density lipoprotein receptor adapter protein 1 (LDLRAP1) ELISA Kit

Catalog No: #EK10128

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Package Size: #EK10128-1 48T #EK10128-2 96T

Description

Product Name	Mouse Low density lipoprotein receptor adapter protein 1 (LDLRAP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	RP11-70P17.2; ARH; ARH1; ARH2; DKFZp586D0624; FHCB1; FHCB2; MGC34705; LDL receptor adaptor protein autosomal recessive hypercholesterolemia protein
Accession No.	Q8C142
Uniprot	Q8C142
GeneID	100017;
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:0.067 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:Sandwich**Test principle:**This assay employs a two-site sandwich ELISA to quantitate LDLRAP1 in samples. An antibody specific for LDLRAP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLDLRAP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LDLRAP1 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 LDLRAP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**LDLRAP1 is a protein encoded by this gene is a cytosolic protein which contains a phosphotyrosine binding (PTD) domain. The PTD domain has been found to interact with the cytoplasmic tail of the LDL receptor. Mutations in this gene lead to LDL receptor malfunction and cause the disorder autosomal recessive hypercholesterolaemia.Expressed at high levels in the kidney, liver, and placenta, with lower levels detectable in brain, heart, muscle, colon, spleen, intestine, lung, and leukocytes.Adapter protein (clathrin-associated sorting protein (CLASP)) required for efficient endocytosis of the LDL receptor (LDLR) in polarized cells such as hepatocytes and lymphocytes, but not in non-polarized cells (fibroblasts). May be required for LDL binding and internalization but not for receptor clustering in coated pits.

Note: This product is for in vitro research use only