Human Lactase-phlorizin hydrolase (LCT) ELISA Kit

Catalog No: #EK10141

Package Size: #EK10141-1 48T #EK10141-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human Lactase-phlorizin hydrolase (LCT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	LAC; LPH; LPH1; lactase-glycosylceramidase|lactase-phlorizin hydrolase|lactase-phlorizin hydrolase-1
Accession No.	P09848
Uniprot	P09848
GeneID	3938;
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:0.156-10 ng/mL

Sensitivity:0.058 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 LCT in samples. An antibody specific for LCT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLCT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LCT 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 LCT bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:v-CRK avian sarcoma virus CT10-homolog-like contains one SH2 domain and two SH3 domains. CRKL has been shown to activate the RAS and JUN kinase signaling pathways and transform fibroblasts in a RAS-dependent fashion. It is a substrate of the BCR-ABL tyrosine kinase and plays a role in fibroblast transformation by BCR-ABL.

In addition, CRKL has oncogenic potential.CrkL together with Crk participates in the Reelin signaling cascade downstream of DAB1.CRKL becomes phosphorylated when overexpressed, activates Ras-dependent and JNK pathways, and transforms fibroblasts. The authors also found CRKL to be a substrate for the BCR-ABL tyrosine kinase (ABL), leading them to conclude that CRKL is a tyrosine kinase and an oncogene.

Note: This product is for in vitro research use only