Human Phospholipase D3 (PLD3) ELISA Kit

Catalog No: #EK8446

Package Size: #EK8446-1 48T #EK8446-2 96T

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

Description

Product Name	Human Phospholipase D3 (PLD3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	HU-K4; HUK4; HindIII K4L|OTTHUMP00000202292|OTTHUMP00000202324|OTTHUMP00000202326|choline phosphatase 3|phosphatidylcholine-hydrolyzing phospholipase D3|phospholipase D3
Accession No.	Q8IV08
Uniprot	Q8IV08
GeneID	23646;
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:78.1-5000 pg/mL

Sensitivity:40 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 PLD3 in samples. An antibody specific for PLD3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPLD3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PLD3 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 PLD3 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Hu-K4 is a human protein homologous to the K4L protein of vaccinia virus.Hu-K4 was assigned to the family of Phospholipase D proteins although so far no catalytic activity has been shown. The Hu-K4 mRNA is found in many human organs with highest expression levels in the central nervous system. As a consequence the protein is 53 amino acids larger than originally predicted, now harbouring a putative transmembrane domain. The exon/intron structure of the Hu-K4 gene reveals extensive alternative splicing in the 5' untranslated region. Due to the absence of G/C-rich regions and upstream ATG codons, the mRNA isoform in brain may be translated with higher efficacy leading to a high Hu-K4 protein concentration in this tissue. Hu-K4 is a membrane-bound protein colocalizing with protein disulfide isomerase, a marker of the endoplasmic reticulum.

Note: This product is for in vitro research use only