

Human Patatin-like phospholipase domain-containing protein 4 (PNPLA4) ELISA Kit



Catalog No: #EK11453

Orders: order@signalwayantibody.com

Package Size: #EK11453-1 48T #EK11453-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Patatin-like phospholipase domain-containing protein 4 (PNPLA4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DXS1283E; GS2; IPLA2-ETA; GS2
Accession No.	P41247
Uniprot	P41247
GeneID	8228;
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:Request Information

Sensitivity:Request Information

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 PNPLA4 in samples. An antibody specific for PNPLA4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPNPLA4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PNPLA4 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 PNPLA4 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**PNPLA4 encodes a member of the patatin-like family of phospholipases. The encoded enzyme has both triacylglycerol lipase and transacylase activities and may be involved in adipocyte triglyceride homeostasis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome Y.DNA sequencing of a GS2 cDNA clone demonstrated an open reading frame for a basic protein of 253 amino acid residues and an isoelectric point of 9.8. A polymorphic CT dinucleotide repeat was found in the 3-prime untranslated region. The GS2 gene was expressed in all human tissues examined, including heart, brain, placenta, lung, liver, muscle, kidney, pancreas, and spleen. Several GS2 transcripts, ranging in size from 1.1 to 5.8 kb, were found among different tissues, suggesting tissue-specific processing of the GS2 transcript.

Note: This product is for in vitro research use only