Human 3-hydroxyacyl-CoA dehydratase 1 (PTPLA) ELISA Kit

Catalog No: #EK7969

Package Size: #EK7969-1 48T #EK7969-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human 3-hydroxyacyl-CoA dehydratase 1 (PTPLA) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CAP; cementum attachment protein|protein tyrosine phosphatase-like; member A|protein-tyrosine phosphatase-like member A
Accession No.	B0YJ81
Uniprot	B0YJ81
GeneID	9200;
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:0.781-50 ng/mL

Sensitivity:0.27 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 PTPLA in samples. An antibody specific for PTPLA has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPTPLA present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTPLA 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 PTPLA bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:PTPLA contains a characteristic catalytic motif of the protein tyrosine phosphatases (PTPs) family. The PTP motif of this protein has the highly conserved arginine residue replaced by a proline residue; thus it may represent a distinct class of PTPs. Members of the PTP family are known to be signaling molecules that regulate a variety of cellular processes. This gene was preferentially expressed in both adult and fetal heart. A much lower expression level was detected in skeletal and smooth muscle tissues, and no expression was observed in other tissues. The tissue specific expression in the developing and adult heart suggests a role in regulating cardiac development and differentiation. Highly expressed in the myocardium, and to a lesser extent in skeletal and smooth muscular tissues including those from stomach, jejunum, and bladder.

Note: This product is for in vitro research use only