

Human Perilipin-4 (KIAA1881) ELISA Kit

Catalog No: #EK10228



Package Size: #EK10228-1 48T #EK10228-2 96T

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Description

Product Name	Human Perilipin-4 (KIAA1881) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Accession No.	Q96Q06
Uniprot	Q96Q06
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:0.312-20 ng/mL

Sensitivity:0.117 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 KIAA1881 in samples. An antibody specific for KIAA1881 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKIAA1881 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KIAA1881 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 KIAA1881 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Members of the perilipin family, such as PLIN4, coat intracellular lipid storage droplets The predicted 1,348-amino acid protein is homologous to the mouse plasma membrane-associated protein S3-12. RT-PCR ELISA detected ubiquitous expression of PLIN4, with highest expression in skeletal muscle, followed by heart and liver, and lowest expression in adult whole brain. Using immunofluorescence microscopy, Wolins et al. (2003) demonstrated that supplementation of mouse adipocytes with fatty acids resulted in a shift from diffuse S3-12 cytoplasmic expression to S3-12 coating of lipid droplets on the cell periphery. Over time, Plin1 coexpression was observed. Formation of S3-12-coated droplets required glucose and fatty acids that could be incorporated into triacylglycerol and was dependent on insulin.

Note: This product is for in vitro research use only