

Human Phosphatidate Phosphatase LPIN1 (LPIN1) ELISA Kit | LPIN1 elisa kit

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CATALOG #
AAA331934

REACTIVITY
Human

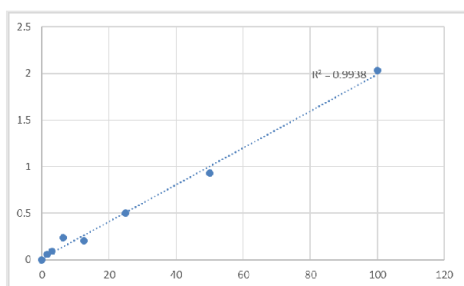
PRODUCT SYNONYMS

Phosphatidate Phosphatase LPIN1 (LPIN1); Human Phosphatidate Phosphatase LPIN1 (LPIN1) ELISA Kit; LPIN1; DKFZp781P1796; KIAA0188; PAP1; LPIN1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Phosphatidate phosphatase LPIN1 (LPIN1) ELISA Kit has high sensitivity and excellent specificity for detection of Human LPIN1. No significant cross-reactivity or interference between Human LPIN1 and analogues was observed.
Sequence Length	975
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Phosphatidate phosphatase LPIN1 (LPIN1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for LPIN1 elisa kit	Description: This Human Phosphatidate phosphatase LPIN1 (LPIN1) ELISA Kit employs a two-site sandwich ELISA to quantitate LPIN1 in samples. An antibody specific for LPIN1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any LPIN1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LPIN1 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 LPIN1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Lipin-1 has phosphatidate phosphatase activity.This gene represents a candidate gene for human lipodystrophy, characterized by loss of body fat, fatty liver, hypertriglyceridemia, and insulin resistance. Mouse studies suggest that this gene functions during normal adipose tissue development and may also play a role in human triglyceride metabolism. Database analysis identified the human LPIN1 gene, as well as the human and mouse LPIN2 and LPIN3 genes. Consistent with the observed reduction of adipose tissue mass in fld mice, wildtype Lpin1 mRNA was expressed at high levels in adipose tissue and was induced during differentiation of 3T3-L2 preadipocytes. The results indicated that lipin is required for normal adipose tissue development, and provided a candidate gene for human lipodystrophy.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	387528013
NCBI GeneID	23175
NCBI Accession #	NP_001248357
NCBI GenBank Nucleotide #	NP_001248357.1
UniProt Accession #	Q14693
NCBI Official Full Name	phosphatidate phosphatase LPIN1 isoform 3
NCBI Official Synonym Full Names	lipin 1
NCBI Official Symbol	LPIN1
NCBI Official Synonym Symbols	PAP1
NCBI Protein Information	phosphatidate phosphatase LPIN1
UniProt Protein Name	Phosphatidate phosphatase LPIN1
UniProt Gene Name	LPIN1
UniProt Synonym Gene Names	KIAA0188
UniProt Entry Name	LPIN1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.