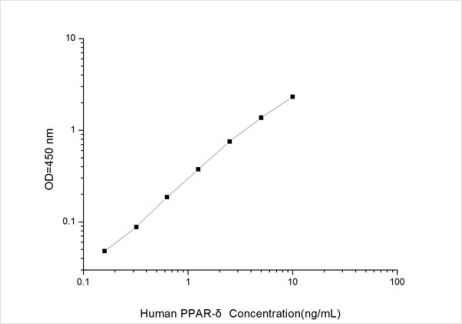
PPAR-Delta ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	PPAR-delta, ELISA Kit
Full Product Name	Human PPAR-delta (Peroxisome Proliferator Activated Receptor Delta) ELISA Kit
Product Gene Name	PPAR-delta elisa kit
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma and other biological fluids
Detection Range	0.16-10ng/mL
Sensitivity	0.1ng/mL
Specificity	This kit recognizes Human PPAR-delta in samples. No significant cross-reactivity or interference between Human PPAR-delta and analogues was observed.
Preparation and Storage	Store at 4 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, mid range and high level Human PPAR-delta were tested on 3 different plates, 20 replicates in each plate.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, mid range and high level Human PPAR-delta were tested 20 times on one plate, respectively.
Molecular Weight	38,855 Da
OMIM	600409
3D Structure	ModBase 3D Structure for Q03181
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PPAR-delta elisa kit	Principle of the Assay: This ELISA kit uses the Sandwich-ELISA principle. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to Human PPAR-delta. Standards or samples are added to the micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for Human PPAR-delta and Avidin-Horseradish Peroxidase (HRP) conjugate are added successively to each micro plate well and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain Human PPAR-delta, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of stop solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 nm ± 2 nm. The OD value is proportional to the concentration of Human PPAR-delta. You can calculate the concentration of Human PPAR-delta in the samples by comparing the OD of the samples to the standard curve. Intended Uses: This ELISA kit applies to the in vitro quantitative determination of Human PPAR-delta concentrations in serum, plasma and other biological fluids.
Other Notes	Small volumes of PPAR-delta elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for PPAR-delta purchase	MBS2500283 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the PPAR-delta, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PPAR-delta. The ELISA analytical biochemical technique of the MBS2500283 kit is based on PPAR-delta antibody-PPAR-delta antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PPAR-delta antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PPAR-delta. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of PPAR-delta elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPAR-delta. It may not necessarily be applicable to this product.

NCBI GI #	284807159
NCBI GeneID	5467
NCBI Accession #	NP_001165291.1
UniProt Primary Accession #	Q03181
UniProt Secondary Accession #	Q5D1P0; Q7Z5K0; Q9BUD4; A8K6J6; B4E3V3; B6ZGS1; B7Z3W1; E9PE18
UniProt Related Accession #	Q03181
GenBank Nucleotide #	NM_001171820.1
NCBI Official Full Name	peroxisome proliferator-activated receptor delta isoform 4
NCBI Official Synonym Full Names	peroxisome proliferator-activated receptor delta
NCBI Official Symbol	PPARD
NCBI Official Synonym Symbols	FAAR; NUC1; NUCI; NR1C2; NUCII; PPARB
UniProt Protein Name	Peroxisome proliferator-activated receptor delta
UniProt Synonym Protein Names	NUCI; Nuclear hormone receptor 1; NUC1; Nuclear receptor subfamily 1 group C member 2; Peroxisome proliferator-activated receptor beta; PPAR-beta
Protein Family	Peroxisome proliferator-activated receptor
UniProt Gene Name	PPARD
UniProt Synonym Gene Names	NR1C2; PPARB; PPAR-delta; NUC1; PPAR-beta
UniProt Entry Name	PPARD_HUMAN
NCBI Protein Information	peroxisome proliferator-activated receptor delta; PPAR-beta; PPAR-delta; nuclear hormone receptor 1; nuclear receptor subfamily 1 group C member 2; peroxisome proliferator-activated nuclear receptor beta/delta variant 2; peroxisome proliferator-activated receptor beta

NCBI Summary for PPAR-delta	This gene encodes a member of the peroxisome proliferator-activated receptor (PPAR) family. PPARs are nuclear hormone receptors that bind peroxisome proliferators and control the size and number of peroxisomes produced by cells. PPARs mediate a variety of biological processes, and may be involved in the development of several chronic diseases, including diabetes, obesity, atherosclerosis, and cancer. This protein is a potent inhibitor of ligand-induced transcription activity of PPAR alpha and PPAR gamma. It may function as an integrator of transcription repression and nuclear receptor signaling. The expression of this gene is found to be elevated in colorectal cancer cells. The elevated expression can be repressed by adenomatosis polyposis coli (APC), a tumor suppressor protein related to APC/beta-catenin signaling pathway. Knockout studies in mice suggested the role of this protein in myelination of the corpus callosum, lipid metabolism, and epidermal cell proliferation. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2010]
UniProt Comments for PPAR-delta	PPAR-delta: Ligand-activated transcription factor. Receptor that binds peroxisome proliferators such as hypolipidemic drugs and fatty acids. Has a preference for poly-unsaturated fatty acids, such as gamma-linoleic acid and eicosapentanoic acid. Once activated by a ligand, the receptor binds to promoter elements of target genes. Regulates the peroxisomal beta-oxidation pathway of fatty acids. Functions as transcription activator for the acyl-CoA oxidase gene. Decreases expression of NPC1L1 once activated by a ligand. Belongs to the nuclear hormone receptor family. NR1 subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Nuclear receptor Chromosomal Location of Human Ortholog: 6p21.2 Cellular Component: nucleoplasm; nucleus Molecular Function: NF-kappaB binding; ligand-dependent nuclear receptor activity; protein binding; DNA binding; zinc ion binding; sequence-specific DNA binding; transcription coactivator activity; steroid hormone receptor activity; drug binding; lipid binding; transcription factor activity Biological Process: proteoglycan metabolic process; wound healing; negative regulation of smooth muscle cell proliferation; heart development; positive regulation of transcription, DNA-dependent; negative regulation of collagen biosynthetic process; positive regulation of epidermis development; negative regulation of smooth muscle cell migration; glucose transport; decidualization; negative regulation of transcription from RNA polymerase II promoter; positive regulation of vasodilation; vitamin A metabolic process; response to vitamin A; positive regulation of cell proliferation; response to glucose stimulus; axon ensheathment; cell differentiation; negative regulation of epithelial cell proliferation; transcription initiation from RNA polymerase II promoter; cholesterol metabolic process; generation of precursor metabolites and energy; intracellular receptor-mediated signaling pathway; glucose metabolic process; positive regulation of insulin secretion; fatty acid catabolic process; keratinocyte proliferation; keratinocyte migration; cell-substrate adhesion; phospholipid biosynthetic process; positive regulation of phosphoinositide 3-kinase cascade; regulation of transcription from RNA polymerase II promoter; cell proliferation; fatty acid beta-oxidation; negative regulation of inflammatory response; mRNA transcription; positive regulation of fat cell differentiation; steroid hormone mediated signaling; gene expression; lipid metabolic process; response to activity; negative regulation of cell growth; negative regulation of transcription, DNA-dependent; embryo implantation; fatty acid transport; negative regulation of apoptosis
Research Articles on PPAR-delta	**1.** PPARbeta activation in vitro and in vivo restores the endothelial function, preserving the insulin-Akt-eNOS pathway impaired by high glucose, at least in part, through PDK4 activation.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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