Peroxisome Proliferators Activated Receptor Gamma2 (PPARgamma2) ELISA Kit for Monkey

PRODUCT OVERVIEW

Product Name	Peroxisome Proliferators Activated Receptor gamma2 (PPARgamma2), ELISA Kit
Full Product Name	Monkey Peroxisome Proliferators Activated Receptor gamma2 ELISA Kit
Product Gene Name	PPARgamma2 elisa kit
Species Reactivity	Monkey
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	57,620 Da
OMIM	137800
3D Structure	ModBase 3D Structure for P37231
Related Product Information for PPARgamma2 elisa kit	MBS008212 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Peroxisome Proliferators Activated Receptor gamma2 (PPARgamma2) 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 PPARgamma2. The ELISA analytical biochemical technique of the MBS008212 kit is based on PPARgamma2 antibody-PPARgamma2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PPARgamma2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PPARgamma2. 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(%).
Other Notes	Small volumes of PPARgamma2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPARgamma2. It may not necessarily be applicable to this product.

NCBI GI #	116284373
NCBI GeneID	5468
NCBI Accession #	NP_619725.2
UniProt Primary Accession #	P37231
UniProt Secondary Accession #	O00684; O00710; O14515; Q0QJH8; Q15178; Q15179; Q15180; Q15832; Q86U60; A8K3G6; B5BUA1
UniProt Related Accession #	P37231
GenBank Nucleotide #	NM_138711.3
NCBI Official Full Name	peroxisome proliferator-activated receptor gamma isoform 1
NCBI Official Synonym Full Names	peroxisome proliferator-activated receptor gamma
NCBI Official Symbol	PPARG
NCBI Official Synonym Symbols	GLM1; CIMT1; NR1C3; PPARG1; PPARG2; PPARgamma

UniProt Protein Name	Peroxisome proliferator-activated receptor gamma
UniProt Synonym Protein Names	Nuclear receptor subfamily 1 group C member 3
UniProt Gene Name	PPARG
UniProt Synonym Gene Names	NR1C3; PPAR-gamma
UniProt Entry Name	PPARG_HUMAN
NCBI Protein Information	peroxisome proliferator-activated receptor gamma; PPAR-gamma; nuclear receptor subfamily 1 group C member 3; peroxisome proliferator-activated nuclear receptor gamma variant 1
NCBI Summary for PPARgamma2	This gene encodes a member of the peroxisome proliferator-activated receptor (PPAR) subfamily of nuclear receptors. PPARs form heterodimers with retinoid X receptors (RXRs) and these heterodimers regulate transcription of various genes. Three subtypes of PPARs are known: PPAR-alpha, PPAR-delta, and PPAR-gamma. The protein encoded by this gene is PPAR-gamma and is a regulator of adipocyte differentiation. Additionally, PPAR-gamma has been implicated in the pathology of numerous diseases including obesity, diabetes, atherosclerosis and cancer. Alternatively spliced transcript variants that encode different isoforms have been described. [provided by RefSeq, Jul 2008]
UniProt Comments for PPARgamma2	PPAR-gamma: a transcription factor, member of the nuclear hormone receptor superfamily. Receptor for hypolipidemic drugs and fatty acids. Preferentially expressed in adipocytes as well as in vascular smooth muscle cells and macrophage. Regulator of adipogenesis and lipid metabolism, modulates insulin sensitivity, cell proliferation and inflammation. Phosphorylated and inhibited by MAP kinase. Heterodimerizes with the retinoid X receptor. Interacts with NCOA6 coactivator, leading to a strong increase in transcription of target genes. Two splice-variant isoforms have been described. Protein type: DNA-binding; Nuclear receptor Chromosomal Location of Human Ortholog: 3p25 Cellular Component: nucleoplasm; perinuclear region of cytoplasm; nucleus; cytosol Molecular Function: ligand-dependent nuclear receptor activity; transcription activator binding; zinc ion binding; drug binding; alpha-actinin binding; protein phosphatase binding; retinoid X receptor binding; arachidonic acid binding; protein binding; enzyme binding; ligand-dependent nuclear receptor transcription coactivator activity; DNA binding; prostaglandin receptor activity; sequence-specific DNA binding; steroid hormone receptor activity; estrogen receptor binding; chromatin binding; transcription factor activity Biological Process: negative regulation of collagen biosynthetic process; positive regulation of transcription, DNA-dependent; heart development; cell maturation; rhythmic process; lipid homeostasis; response to lipid; glucose homeostasis; response to vitamin A; response to caffeine; positive regulation of oligodendrocyte differentiation; placenta development; long-chain fatty acid transport; organ regeneration; cell fate commitment; monocyte differentiation; negative regulation of acute inflammatory response; regulation of circadian rhythm; response to starvation; negative regulation of telomerase activity; cellular response to insulin stimulus; lipoprotein transport; response to mechanical stimulus; response to estrogen stimulus; brown fat cell differentiation; positive regulation of fat cell differentiation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription factor activity; fatty acid oxidation; steroid hormone mediated signaling; positive regulation of phagocytosis, engulfment; negative regulation of transcription, DNA-dependent; negative regulation of smooth muscle cell proliferation; low-density lipoprotein receptor biosynthetic process; negative regulation of transcription from RNA polymerase II promoter; signal transduction; epithelial cell differentiation; regulation of blood pressure; response to nutrient; caspase activation; transcription initiation from RNA polymerase II promoter; response to retinoic acid; G-protein coupled receptor protein signaling pathway; response to low density lipoprotein stimulus; positive regulation of fatty acid oxidation; white fat cell differentiation; innate immune response; gene expression; negative regulation of cell growth; lipid metabolic process; response to cold Disease: Obesity; Lipodystrophy, Familial Partial, Type 3; Carotid Intimal Medial Thickness 1; Diabetes Mellitus, Noninsulin-dependent
Research Articles on PPARgamma2	**1.** Both C-FABP and PPARg are suitable as prognostic factors to predict the clinical outcome of prostatic cancer patients.

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