

peroxisome proliferator-activated receptor gamma ELISA Kit | PPARG elisa kit

Rat Peroxisome Proliferator-activated receptor gamma, PPAR-gamma ELISA Kit

CATALOG #
AAA80439

REACTIVITY
Rat

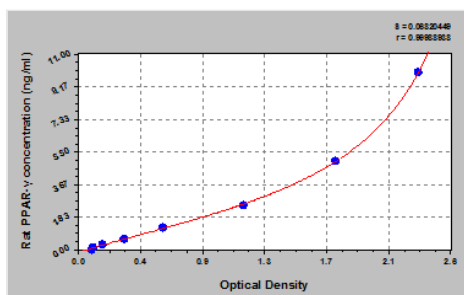
PRODUCT SYNONYMS

peroxisome proliferator-activated receptor gamma; Rat Peroxisome Proliferator-activated receptor gamma; PPAR-gamma ELISA Kit; C1MT1; GLM1; NR1C3; PPARG1; PPARG2; PPARGgamma; OTTHUMP00000185030; OTTHUMP00000185033; PPAR gamma; nuclear receptor subfamily 1 group C member 3; peroxisome proliferative activated receptor gamma; peroxi; PPARG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat PPARG. No significant cross-reactivity or interference between Rat PPARG and analogues was observed.
Sequence Length	475
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Transcription/Transcription regulation
Protein Biological Process 3	Transcription
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PPARG elisa kit	Introduction: Peroxisome proliferators are non genotoxic carcinogens which are purported to exert their effect on cells through their interaction with members of the nuclear hormone receptor family termed peroxisome proliferator activated receptors (PPARs). Nuclear hormone receptors are ligand dependent intracellular proteins that stimulate transcription of specific genes by binding to specific DNA sequences following activation by the appropriate ligand. Studies indicate that PPARs are activated by peroxisome proliferators such as clofibric acid, nafenopin, and WY14,643, as well as by some fatty acids. It has also been shown that PPARs can induce transcription of acyl coenzyme A oxidase & cytochrome P450 (CYP450) A6 through interaction with specific response elements. The PPAR gamma 2 isoform appears to be induced very early in the differentiation of several cultured adipocyte cell lines, and has been suggested to be a dominant regulator of the murine P2 (aP2) gene which encodes an intracellular lipid binding protein which is expressed only in adipose cells. PPAR gamma 2, like several other nuclear hormone receptors, heterodimerizes with RXR alpha. Defects in PPAR gamma can lead to type 2 insulin-resistant diabetes and hyptertension and could play a role in the genetic predisposition to obesity. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to PPAR-gamma. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for PPAR-gamma and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain PPAR-gamma, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of PPAR-gamma in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	3024414
UniProt Accession #	O19052
Molecular Weight	54,365 Da
NCBI Official Full Name	Peroxisome proliferator-activated receptor gamma
UniProt Protein Name	Peroxisome proliferator-activated receptor gamma
UniProt Gene Name	PPARG
UniProt Synonym Gene Names	NR1C3; PPAR-gamma
UniProt Entry Name	PPARG_RABIT

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.