

For Research Use Only

# PPARA Monoclonal antibody

Catalog Number: 66826-1-Ig

Featured Product

101 Publications



## Basic Information

Catalog Number:

66826-1-Ig

Concentration:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG7896

GenBank Accession Number:

BC000052

GeneID (NCBI):

5465

UNIPROT ID:

Q07869

Full Name:

peroxisome proliferator-activated  
receptor alpha

Calculated MW:

52 kDa

Observed MW:

53 kDa

Purification Method:

Protein A purification

CloneNo.:

1G1E10

Recommended Dilutions:

WB 1:1000-1:6000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IHC, IF, CoIP

Species Specificity:

Human, rat

Cited Species:

human, mouse, rat, pig, chicken, zebrafish, hamster,  
goat

Positive Controls:

WB : HSC-T6 cells, ROS1728 cells

## Background Information

Peroxisome proliferator-activated receptor alpha (PPARA) is a ligand-activated transcription factor that belongs to the PPAR nuclear receptor superfamily. PPARA is essential in the modulation of lipid transport and metabolism, mainly through activating mitochondrial and peroxisomal fatty acid  $\beta$ -oxidation pathways. In addition, PPARA seems to decrease inflammation mainly through direct interaction with NF- $\kappa$ B, causing inhibition of its signaling pathway or reducing the activated levels of NF- $\kappa$ B and subsequent inflammation. Furthermore, PPARA was implicated in the attenuation of oxidative stress in alcoholic liver disease when treated with polyene phosphatidylcholine through downregulation of ROS-generating enzymes such as ethanol-inducible cytochrome P450 2E1 (CYP2E1), acyl-CoA oxidase, and NADPH oxidase. PPARA exists two isoforms and molecular weight of PPARA isoforms are 52 kDa and 22 kDa. The ability of a retinoid X receptor (RXR) to heterodimerize with many nuclear receptors, including LXR, PPAR, NGF1B and RAR, underscores its pivotal role within the nuclear receptor superfamily. Among these heterodimers, PPAR:RXR is considered an important signalling mediator of both PPAR ligands, such as fatty acids, and 9-cis retinoic acid (9-cis RA), an RXR ligand. (PMID: 15103326). PPARA can form Heterodimer with RXRA and molecular weight of Heterodimer is about 110 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jia Xu	36210393	Fish Physiol Biochem	WB
Zhonghao Li	36498935	Int J Mol Sci	WB
Xin Yin	35534547	Cell Death Differ	WB,IHC

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

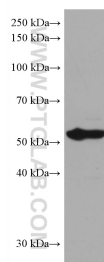
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



HSC-T6 cells were subjected to SDS PAGE followed by western blot with 66826-1-Ig (PPARA antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.