

For Research Use Only

PPARA Monoclonal antibody, PBS Only

Catalog Number: 66826-1-PBS

Featured Product



Basic Information

Catalog Number:

66826-1-PBS

Size:

3186 ug/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

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, rat

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 β -oxidation pathways. In addition, PPARA seems to decrease inflammation mainly through direct interaction with NF- κ B, causing inhibition of its signaling pathway or reducing the activated levels of NF- κ B and subsequent inflammation. Furthermore, PPARA was implicated in the attenuation of oxidative stress in alcoholic liver disease when treated with polyenephosphatidylcholine 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.

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

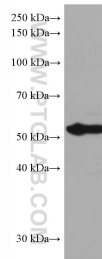
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Selected Validation Data



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. This data was developed using the same antibody clone with 66826-1-PBS in a different storage buffer formulation.