

For Research Use Only

# PPARA Monoclonal antibody, PBS Only



Catalog Number: 66826-1-PBS

## Basic Information

<b>Catalog Number:</b> 66826-1-PBS	<b>GenBank Accession Number:</b> BC000052	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 3186 µg/ml	<b>GeneID (NCBI):</b> 5465	<b>CloneNo.:</b> 1G1E10
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q07869	
<b>Isotype:</b> IgG1	<b>Full Name:</b> peroxisome proliferator-activated receptor alpha	
<b>Immunogen Catalog Number:</b> AG7896	<b>Calculated MW:</b> 52 kDa	
	<b>Observed MW:</b> 53 kDa	

## 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  $\beta$ -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 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.

**Storage Buffer:**  
PBS only

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

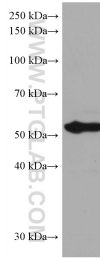
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## Selected Validation Data



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.