

For Research Use Only

# PPARA Polyclonal antibody

Catalog Number: 22070-1-AP



## Basic Information

<b>Catalog Number:</b> 22070-1-AP	<b>GenBank Accession Number:</b> BC000052	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul	<b>GeneID (NCBI):</b> 5465	
<b>Source:</b> Rabbit	<b>Full Name:</b> peroxisome proliferator-activated receptor alpha	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 468 aa, 52 kDa	
<b>Immunogen Catalog Number:</b> AG17192		

## Applications

**Tested Applications:**  
ELISA

**Species Specificity:**  
human

## 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.

## Storage

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

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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## Selected Validation Data