

For Research Use Only

PPARA Monoclonal antibody

Catalog Number: 66826-1-Ig

Featured Product

101 Publications



Basic Information

| | | |
|--|---|---|
| Catalog Number: 66826-1-Ig | GenBank Accession Number: BC000052 | Purification Method: Protein A purification |
| Size: 150ul , Concentration: 1000 ug/ml by Nanodrop; | GeneID (NCBI): 5465 | CloneNo.: 1G1E10 |
| Source: Mouse | UNIPROT ID: Q07869 | Recommended Dilutions: WB 1:1000-1:6000 |
| Isotype: IgG1 | Full Name: peroxisome proliferator-activated receptor alpha | |
| Immunogen Catalog Number: AG7896 | Calculated MW: 52 kDa | |
| | Observed MW: 53 kDa | |

Applications

| | |
|--|---|
| Tested Applications: WB, ELISA | Positive Controls: WB : HSC-T6 cells, ROS1728 cells |
| Cited Applications: WB, IHC, IF, ColP | |
| Species Specificity: Human, rat | |
| Cited Species: human, mouse, rat, pig, chicken, zebrafish, hamster, goat | |

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 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

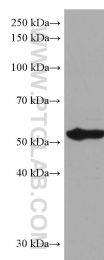
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 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

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.