

For Research Use Only

PPARA Monoclonal antibody

Catalog Number: 66826-1-Ig

Featured Product

104 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, CoIP	
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

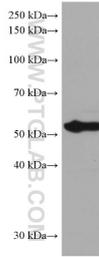
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 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)
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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.