For Research Use Only

PPARA Polyclonal antibody Catalog Number:15540-1-AP Featured Product

Featured Product 189 Publications



Basic Information	Catalog Number: 15540-1-AP	GenBank Accession Number: BC000052	Purification Method: Antigen affinity purification	
	Size: 150ul , Concentration: 650 µg/ml by Nanodrop;	GenelD (NCBI): 5465 UNIPROT ID:	Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate	
	Source: Rabbit Isotype: IgG	Q07869 procentrysete Full Name: peroxisome proliferator-activated receptor alpha receptor alpha		
	Immunogen Catalog Number: AG7896	Calculated MW: 52 kDa		
		Observed MW: 52 kDa		
Applications	Tested Applications: WB. IP. ELISA	Positive Co	Positive Controls:	
	Cited Applications: WB. IF. CoIP. ChIP	WB : C2C12 IP : U-937 c	IP : U-937 cells,	
	Species Specificity: human, mouse, rat			
	Cited Species: human, mouse, rat, pig, chicken, bovine, 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-κB, causing inhibition of its signaling pathway or reducing the activated levels of NF-κB 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, NGF 1B 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 Put	omed ID Journal	Application	
	Yuxiang Sun 31	590050 Colloids Surf B Bioi	nterfaces WB	
	Lei Ye 334	491741 Int J Oncol	WB	
	Alyssa Charrier 276 ————————————————————————————————————	524101 Am J Physiol Endoo	rrinol Metab WB	
Storage	Storage: Store at -20°C. Stable for one year af Storage Buffer: PBS with 0.02% sodium azide and 50	ter shipment. 0% glycerol pH 7.3.		
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^\circ$ C :	storage		
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)	ta for this product please contact: E: proteintech@ptglab.com W: ptglab.com	This product i Group brand other manufa	s exclusively available under Proteintech and is not available to purchase from any acturer.	

Selected Validation Data



C2C12 cells were subjected to SDS PAGE followed by western blot with 15540-1-AP (PPARA antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours. IP result of anti-PPARA (IP:15540-1-AP, 4ug; Detection:15540-1-AP 1:300) with U-937 cells lysate 4000ug.

55 kDa

– IgG Heavy Chain

Normal Rabbit IgG (30000-0-AP) PPARA Antibody (15540-1-AP)