

For Research Use Only

CoraLite® Plus 750-conjugated PPAR Gamma Recombinant antibody

Catalog Number:CL750-81490-5



Basic Information

Catalog Number: CL750-81490-5	GenBank Accession Number: BC006811	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 5468	CloneNo.: 230374A3
Source: Rabbit	UNIPROT ID: P37231	Recommended Dilutions: WB 1:500-1:2000
Isotype: IgG	Full Name: peroxisome proliferator-activated receptor gamma	Excitation/Emission maxima wavelengths: 755 nm / 780 nm
Immunogen Catalog Number: AG10005	Calculated MW: 58 kDa	
	Observed MW: 50-60 kDa	

Applications

Tested Applications: WB, FC (Intra)	Positive Controls: WB : L02 cells, HepG2 cells, MCF-7 cells
Species Specificity: human, rat	

Background Information

Peroxisome Proliferator-Activated Receptors (PPARs) are ligand-activated intracellular transcription factors, members of the nuclear hormone receptor superfamily (NR), that includes estrogen, thyroid hormone receptors, retinoic acid, Vitamin D3 as well as retinoid X receptors (RXRs). The PPAR subfamily consists of three subtypes encoded by distinct genes denoted PPAR α (NR1C1), PPAR β/δ (NR1C2) and PPAR γ (NR1C3), which are activated by selective ligands. PPAR γ , also named as PPAR γ , contains one nuclear receptor DNA-binding domain and is a receptor that binds peroxisome proliferators such as hypolipidemic drugs and fatty acids. It plays an important role in the regulation of lipid homeostasis, adipogenesis, ins resistance, and development of various organs. Defects in PPAR γ are the cause of familial partial lipodystrophy type 3 (FPLD3) and may be associated with susceptibility to obesity. Defects in PPAR γ can lead to type 2 ins-resistant diabetes and hypertension. PPAR γ mutations may be associated with colon cancer. Genetic variations in PPAR γ are associated with susceptibility to glioma type 1 (GLM1). PPAR γ has two isoforms with molecular weights of 57 kDa and 54 kDa (PMID: 9831621), but modified PPAR γ is about 67 kDa (PMID: 16809887). PPAR γ 2 is a splice variant and has an additional 30 amino acids at the N-terminus (PMID: 15689403). Experimental data indicate that a 45 kDa protein displaying three different sequences immunologically related to the nuclear receptor PPAR γ 2 is located in mitochondria (mt-PPAR). However, the molecular weight of this protein is clearly less when compared to that of PPAR γ 2 (57 kDa) (PMID: 10922459). PPAR γ has been reported to be localized mainly (but not always) in the nucleus. PPAR γ can also be detected in the cytoplasm and was reported to possess extra-nuclear/non-genomic actions (PMID: 17611413; 19432669; 14681322).

Storage

Storage: Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer: PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

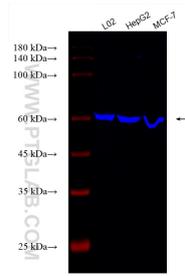
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

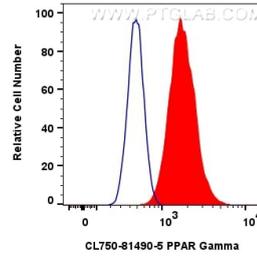
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL750-81490-5 (PPAR Gamma antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1×10^6 HeLa cells were intracellularly stained with 0.8 ug Coralite® Plus 750 PPAR Gamma Recombinant Antibody (CL750-81490-5, Clone:230374A3)(red), or 0.8 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).