## CoraLite® Plus 647-conjugated PPAR Gamma Monoclonal antibody

Catalog Number: CL647-60127

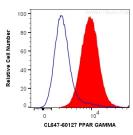
Basic Information	Catalog Number: CL647-60127	GenBank Accession Number: BC006811	Purification Method: Protein G purification				
	Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; Source: Mouse Isotype: IgG1 Immunogen Catalog Number: AG10005	GeneID (NCBI): 5468 Full Name: peroxisome proliferator-activated receptor gamma Calculated MW: 58 kDa Observed MW: 50-60 kDa	CloneNo.: 4E12F10 Excitation/Emission maxima wavelengths: 654 nm / 674 nm				
				Applications	Tested Applications: FC (Intra)		
					Species Specificity: human, mouse, 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 PPARa (NR1C1), PPARβ/δ (NR1C2) and PPARγ (NR1C3), which are activated by selective ligands. PPARγ , also named as PPARG, 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 PPARG are the cause of familial partial lipodystrophy type 3 (FPLD3) and may be associated with susceptibility to obesity. Defects in PPARG can lead to type 2 INS-resistant diabetes and hypertension. PPARG mutations may be associated with colon cancer. Genetic variations in PPARG are associated with susceptibility to glioma type 1 (GLM1). PPARG has two isoforms with molecular weight 57 kDa and 54 kDa (PMID: 9831621), but modified PPARG i about 67 KDa (PMID: 16809887). PPARG2 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 PPARG2 is located in mitochondria (mt-PPAR). However, the molecular weight of this protein is clearly less when compared to that of PPARG2 (57 kDa). (PMID: 10922459). PPAI has been reported to be localized mainly (but not always) in the nucleus. PPARG can also be detected in the cytoplasm and was reported to possess extra-nuclear/non-genomic actions (PMID: 17611413; 19432669; 14681322		
	molecular weight of this protein is cle has been reported to be localized mai	early less when compared to that of P inly (but not always) in the nucleus. P	PARG2 (57 kDa). (PMID: 10922459). PPA PARG can also be detected in the				
Storage	molecular weight of this protein is cle has been reported to be localized mai cytoplasm and was reported to posses Storage: Store at -20°C. Avoid exposure to ligh Storage Buffer: PBS with 50% Glycerol, 0.05% Proclir	early less when compared to that of P inly (but not always) in the nucleus. P ss extra-nuclear/non-genomic actions at. Stable for one year after shipment. 1300, 0.5% BSA, pH 7.3.	PARG2 (57 kDa). (PMID: 10922459). PPA PARG can also be detected in the				
Storage *** 20ul sizes contain 0.1% BSA	molecular weight of this protein is cle has been reported to be localized mai cytoplasm and was reported to posses Storage: Store at -20°C. Avoid exposure to ligh Storage Buffer:	early less when compared to that of P inly (but not always) in the nucleus. P ss extra-nuclear/non-genomic actions at. Stable for one year after shipment. 1300, 0.5% BSA, pH 7.3.	PARG2 (57 kDa). (PMID: 10922459). PPA PARG can also be detected in the				

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

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



1X10^6 K-562 cells were intracellularly stained with 0.2 ug CoraLite® Plus 647 Anti-Human PPAR Gamma (CL647-60127, Clone:4E12F10) (red), or 0.2 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).