

For Research Use Only

# PPAR Gamma Monoclonal antibody, PBS Only



Catalog Number: 60127-1-PBS

Featured Product

## Basic Information

Catalog Number:

60127-1-PBS

Size:

1mg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG10005

GenBank Accession Number:

BC006811

GeneID (NCBI):

5468

UNIPROT ID:

P37231

Full Name:

peroxisome proliferator-activated  
receptor gamma

Calculated MW:

58 kDa

Observed MW:

66-70 kDa

Purification Method:

Protein A purification

CloneNo.:

4E12F10

## Applications

Tested Applications:

WB, IF, IHC, ELISA

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 PPAR $\alpha$  (NR1C1), PPAR $\beta$  /  $\delta$  (NR1C2) and PPAR $\gamma$  (NR1C3), which are activated by selective ligands. PPAR $\gamma$ , 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 is 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). PPARG 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).

## Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

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

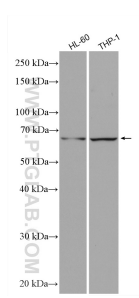
T: 4006900926

E: Proteintech-CN@ptglab.com

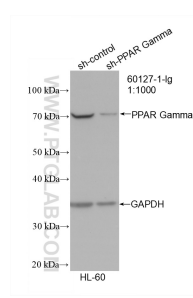
W: ptgcn.com

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

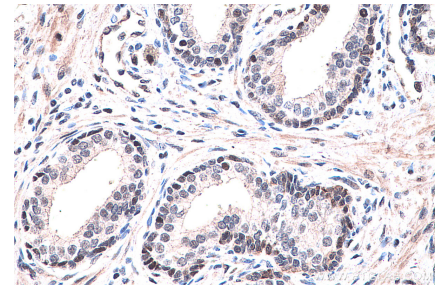
## Selected Validation Data



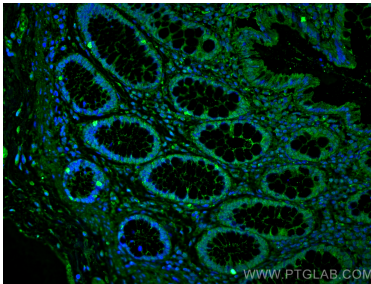
Various lysates were subjected to SDS PAGE followed by western blot with 60127-1-Ig (PPAR Gamma antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60127-1-PBS in a different storage buffer formulation.



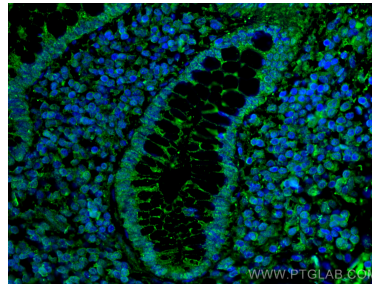
WB result of PPAR Gamma antibody (60127-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PPAR Gamma transfected HL-60 cells. This data was developed using the same antibody clone with 60127-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 60127-1-Ig (PPAR Gamma antibody) at dilution of 1:8000 (under 40x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 60127-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human colon tissue using PPAR Gamma antibody (60127-1-Ig, Clone: 4E12F10) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 60127-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human colon tissue using PPAR Gamma antibody (60127-1-Ig, Clone: 4E12F10) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 60127-1-PBS in a different storage buffer formulation.