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PPAR gamma Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10623

Specification

PPAR gamma Antibody - Product Information

Application	**WB**
Primary Accession	P37231
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**57620**

PPAR gamma Antibody - Additional Information

Gene ID 5468

Application & Usage	**Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes ~33 kDa band, corresponding to PPARg (isoform CRA-c) in samples from human and mouse origins. Reactivity to other species has not been tested.**

Other Names
PPARG, PPAR G, PPAR g, peroxisome proliferator activated receptor

Target/Specificity
PPAR

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
PPAR gamma Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PPAR gamma Antibody - Protein Information

Name PPARG

Synonyms NR1C3

Function
Nuclear receptor that binds peroxisome proliferators such as hypolipidemic drugs and fatty acids. Once activated by a ligand, the nuclear receptor binds to DNA specific PPAR response elements (PPRE) and modulates the transcription of its target genes, such as acyl-CoA oxidase. It therefore controls the peroxisomal beta-oxidation pathway of fatty acids. Key regulator of adipocyte differentiation and glucose homeostasis. ARF6 acts as a key regulator of the tissue-specific adipocyte P2 (aP2) enhancer. Acts as a critical regulator of gut homeostasis by suppressing NF-kappa-B-mediated pro-inflammatory responses. Plays a role in the regulation of cardiovascular circadian rhythms by regulating the transcription of BMAL1 in the blood vessels (By similarity).

Cellular Location
Nucleus. Cytoplasm. Note=Redistributed from the nucleus to the cytosol through a MAP2K1/MEK1-dependent manner. NOCT enhances its nuclear translocation

Tissue Location
Highest expression in adipose tissue. Lower in skeletal muscle, spleen, heart and liver. Also detectable in placenta, lung and ovary.

PPAR gamma Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PPAR gamma Antibody - Images

PPAR gamma Antibody - Background

PPAR (Peroxisome proliferator-activated receptor) is a member of the nuclear hormone receptor superfamily and functions as a transcriptional activator. PPARg is preferentially expressed in adipocyte as well as in vascular smooth muscle cells and macrophage. Besides its role in mediating adipogenesis and lipids metabolism, PPARg also modulates insulin sensitivity, cell proliferation and inflammation. The inhibition of PPARg transcription activity is due to MAP kinase phosphorylation at serine 84 of PPARg.