

# **PPARG antibody - N-terminal region**

Rabbit Polyclonal Antibody Catalog # Al10074

## **Specification**

# **PPARG antibody - N-terminal region - Product Information**

Application WB

Primary Accession <u>P37231</u>

Other Accession <u>P37231</u>, <u>NP\_056953</u>, <u>NM\_015869</u>

Reactivity Human, Pig, Dog Predicted Human, Pig, Dog

Host Rabbit
Clonality Polyclonal
Calculated MW 57 kDa KDa

## PPARG antibody - N-terminal region - Additional Information

**Gene ID 5468** 

Alias Symbol NR1C3, PPARG1, PPARG2, GLM1, CIMT1,

**PPARgamma** 

## **Other Names**

Peroxisome proliferator-activated receptor gamma, PPAR-gamma, Nuclear receptor subfamily 1 group C member 3, PPARG, NR1C3

# Target/Specificity

PPARG is a receptor that binds peroxisome proliferators such as hypolipidemic drugs and fatty acids. Once activated by a ligand, the receptor binds to a promoter element in the gene for acyl-CoA oxidase and activates its transcription. It therefore controls the peroxisomal beta-oxidation pathway of fatty acids. PPARG is the key regulator of adipocyte differentiation and glucose homeostasis. This gene encodes a member of the peroxisome proliferator-activated receptor (PPAR) subfamily of nuclear receptors. PPARs form heterodimers with retinoid X receptors (RXRs) and these heterodimers regulate transcription of various genes. Three subtypes of PPARs are known: PPAR-alpha, PPAR-delta, and PPAR-gamma. The protein encoded by this gene is PPAR-gamma and is a regulator of adipocyte differentiation. Additionally, PPAR-gamma has been implicated in the pathology of numerous diseases including obesity, diabetes, atherosclerosis and cancer. Alternatively spliced transcript variants that encode different isoforms have been described.

### **Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

# **Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-PPARG antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.

#### **Precautions**

PPARG antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.



# **PPARG antibody - N-terminal region - 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**

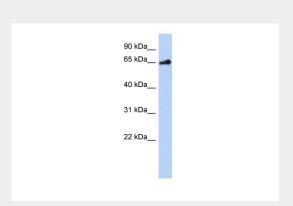
Highest expression in adipose tissue. Lower in skeletal muscle, spleen, heart and liver. Also detectable in placenta, lung and ovary.

# **PPARG antibody - N-terminal region - 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

### PPARG antibody - N-terminal region - Images



PPARG antibody - N-terminal region (Al10074) in Human Jurkat cells using Western Blot







WB Suggested Anti-PPARG Antibody Titration: 0.2-1 µg/ml

ELISA Titer: 1:500

Positive Control: Jurkat cell lysate

# PPARG antibody - N-terminal region - Background

This is a rabbit polyclonal antibody against PPARG. It was validated on Western Blot using a cell lysate as a positive control. Abgent strives to provide antibodies covering each member of a whole protein family of your interest. We also use our best efforts to provide you antibodies recognize various epitopes of a target protein. For availability of antibody needed for your experiment, please inquire (sales@abgent.com).