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# **Human PPAR gamma/NR1C3 antibody**

Catalog Number: ATGA0514

### **PRODUCT INFORMATION**

## Catalog number

ATGA0514

#### Clone No.

AT4F5

## **Product type**

Monoclonal Antibody

#### UnitProt No.

P37231

#### **NCBI Accession No.**

NP 619725

#### **Alternative Names**

Peroxisome proliferator-activated receptor gamma, NR1C3, CIMT1, GLM1, NR1C3, PPARG1, PPARG2, PPARgamma, PPARG

### PRODUCT SPECIFICATION

### **Antibody Host**

Mouse

#### **Reacts With**

Human

#### **Concentration**

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

## **Immunogen**

Recombinant human PPARG (209-477aa) purified from E. coli.

## Isotype

IgG1 kappa

#### **Purification Note**

By protein-A affinity chromatography

## **Application**

ELISA, WB, ICC/IF, FACS

#### Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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### Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

#### **Description**

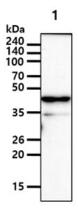
PPAR gamma, also known as Peroxisome proliferator-activated receptor gamma, is member of the nuclear hormone receptor subfamily of transcription factors. It regulates transcription of genes involved in Insulin action, adipocyte differentiation, lipid metabolism and inflammation. It is implicated in numerous diseases including obesity, diabetes, atherosclerosis and cancer. It also activators include prostanoids, fatty acids, thiazolidinediones and N- (2-benzoylphenyl) tyrosine analogues. PPARG may modulate macrophage functions such as proinflammatory activities, and stimulate oxidized low-density lipoprotein (x-LDL) uptake.

#### **General References**

Berger J., et al. (2002) Annu Rev Med . 53:409-35. Michalik L., et al. (2006) Pharmacol Rev. 58(4):726-41.

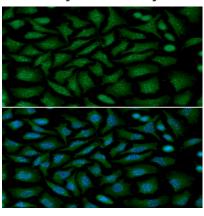
### **DATA**

## Western blot analysis (WB)



The cell lysate (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PPAR gamma antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: 293T cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)



Flow cytometry (FACS)

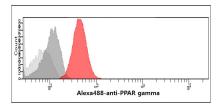
ICC/IF analysis of PPAR gamma in HeLa cells. The cell was stained with ATGA0514 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



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Flow cytometry analysis of PPAR gamma in 293T cells. The cell was stained with ATGA0514 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

