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

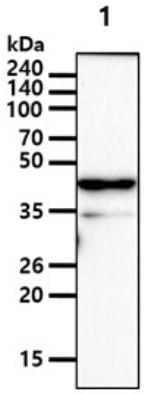
PPAR gamma, also known as Peroxisome proliferator-activated receptor gamma, is member of the nuclear hormone receptor subfamily of transcription factors. It regulates transcription of genes involved in Insulin action, adipocyte differentiation, lipid metabolism and inflammation. It is implicated in numerous 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.

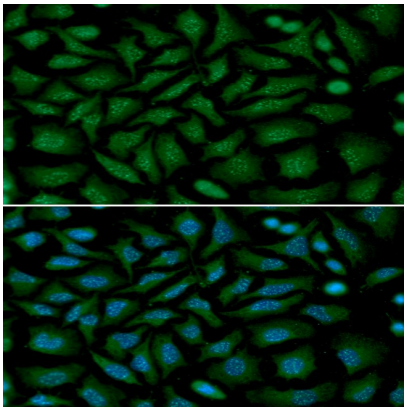
DATA

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)



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).

Flow cytometry (FACS)

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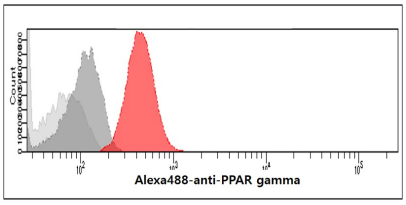

Flow cytometry analysis of PPAR gamma in 293T cells. The cell was stained with ATGA0514 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and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