

Anti-PPAR gamma/PPARG Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse, Rat (predicted: Chicken, Pig, Cow, Rabbit, Sheep, Zebrafish)
Molecular Weight:	Theoretical: 57 kDa. Actual: 52 kDa.
Purification:	Protein A purified

Applications

1. Sample:

Lane 1: Mouse Breast tissue lysates

Lane 2: Mouse Lung tissue lysates

Lane 3: Rat Adipose tissue lysates

Lane 4: Rat Breast tissue lysates

Lane 5: Rat Lung tissue lysates

Lane 6: Human A431 cell lysates

Lane 7: Human A549 cell lysates

Lane 8: Human THP-1 cell lysates

Lane 9: Human 293T cell lysates

Primary: Anti-PPAR gamma (TMAB-01568) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 57 kDa

Observed band size: 52 kDa

2. Tissue/cell: mouse lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Verified Activity:

Incubation: Anti-PPAR Gamma Polyclonal Antibody, Unconjugated (TMAB-01568) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.

3. Blank control (blue line): U251

Primary Antibody (green line): Rabbit Anti-PPARG/PPAR gamma antibody (TMAB-01568)

Dilution: 1 µg/10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC

Dilution: 1 µg/test.

Protocol

The cells were fixed with 70% ethanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 30 min on ice. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2% BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature.

4. Blank control: A431. Primary Antibody (green line): Rabbit Anti-PPAR gamma antibody (TMAB-01568)

Dilution: 1 µg/10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

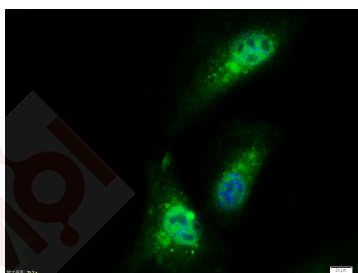
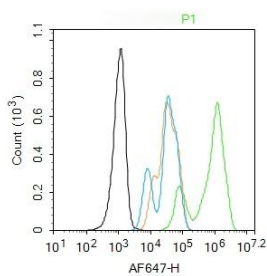
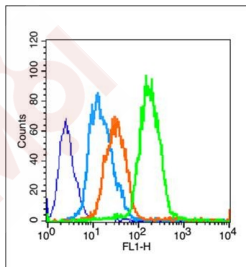
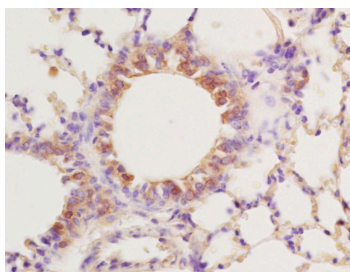
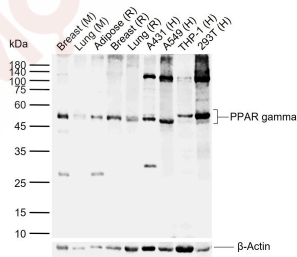
Secondary Antibody: Goat anti-rabbit IgG-AF647

Dilution: 1 µg/test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

5. Tissue/cell: A549 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (PPAR gamma) polyclonal Antibody, Unconjugated (TMAB-01568) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.



Application: FCM, ICC/IF, WB

A DRUG SCREENING EXPERT

Recommended FCM=1 µg/Test; ICC/IF=1:100-500; WB=1:500-2000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human PPAR Gamma

Antigen Species: Human

Gene ID: 5468

Uniprot ID: P37231

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

Biology Area: Diabetes associated, Metabolism, Zinc Finger, Fatty acids, Fatty acid oxidation, Diabetes, Heart disease, Obesity, Metabolism, Adipogenesis

Research Background

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. [provided by RefSeq, Jul 2008]

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