bs-0530R **[Primary Antibody]**

PPAR gamma Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5468 **SWISS:** P37231

Target: PPAR gamma

Immunogen: KLH conjugated synthetic peptide derived from human PPAR Gamma: 101-200/505.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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]

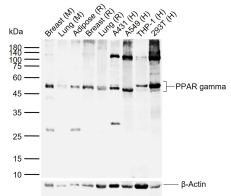
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)
ICC/IF (1:100)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Sheep, Cow, Chicken)

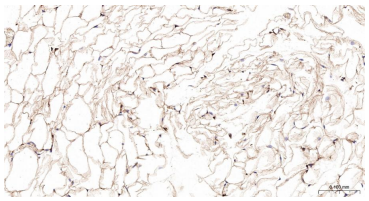
Predicted MW.: 57 kDa

Subcellular Location: Nucleus

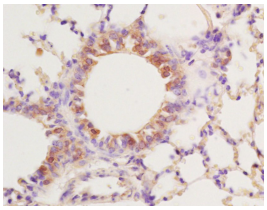
VALIDATION IMAGES



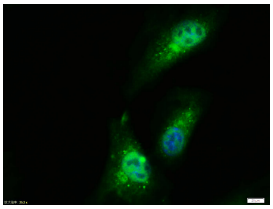
Sample: Lane 1: Mouse Breast tissue lysates Lane 2: Mouse Lung tissue lysates Lane 3: Rat Adipose tissue lysates Lane 4: Rat Breast tissue lysates Lane 5: Rat Lung tissue lysates Lane 6: Human A431 cell lysates Lane 7: Human A549 cell lysates Lane 8: Human THP-1 cell lysates Lane 9: Human 293T cell lysates Primary: Anti-PPAR gamma (bs-0530R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57 kDa Observed band size: 52 kDa



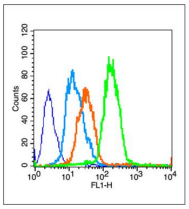
Paraformaldehyde-fixed, paraffin embedded Rat Fat; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with PPAR gamma Polyclonal Antibody, Unconjugated (bs-0530R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



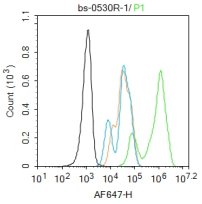
Tissue/cell: mouse lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-PPAR Gamma Polyclonal Antibody, Unconjugated(bs-0530R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: A549 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum,



Blank control (blue line): U251 Primary Antibody (green line): Rabbit Anti-PPARG/PPAR gamma antibody (bs-0530R) Dilution: 1μg /10^6 cells;



Blank control: A431. Primary Antibody (green line): Rabbit Anti-PPAR gamma antibody (bs-0530R) Dilution: 1μg /10^6 cells; Isotype

C-0005) at 37°C for 20 min; Antibody incubation with (PPAR gamma) polyclonal Antibody, Unconjugated (bs-0530R) 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, C02-04002) was used to stain the cell nuclei.

Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC Dilution: 1μg /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. Acquisition of 20,000 events was performed.

Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min 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. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=9.8]** Yanghuan Yu. et al. MiRNA-seq and mRNA-seq revealed the mechanism of fluoride-induced cauda epididymal injury. SCI TOTAL ENVIRON. 2024 Jun;930:172895 WB,IF ;Mouse. 38697545
- **[IF=8.74]** Yao Yao. et al. Short-chain fatty acids regulate B cells differentiation via FFAR2 to alleviate rheumatoid arthritis. BRIT J PHARMACOL. 2022 Apr 07 FCM ;Mouse. 35393660
- **[IF=7.658]** Lei Ma. et al. Identification of the anti-fungal drug fenticonazole nitrate as a novel PPARγ-modulating ligand with good therapeutic index: Structure-based screening and biological validation. Pharmacol Res. 2021 Nov;173:105860 WB ;Mouse. 34461220
- **[IF=6.684]** Lijin Guo. et al. Whole Transcriptome Analysis Reveals a Potential Regulatory Mechanism of LncRNA-FNIP2/miR-24-3p/FNIP2 Axis in Chicken Adipogenesis. Front Cell Dev Biol. 2021; 9: 653798 WB ;Chicken. 34249911
- **[IF=7.419]** Fangyuan Chen. et al. Identification of a novel PPARγ modulator with good anti-diabetic therapeutic index via structure-based screening, optimization and biological validation. BIOMED PHARMACOTHER. 2022 Oct;154:113653 WB ;Mouse. 10.1016/j.biopha.2022.113653