bs-3737R **[Primary Antibody]**

phospho-PPAR Gamma (Ser112) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5468 **SWISS:** P37231

Target: PPAR Gamma (Ser112)

Immunogen: KLH conjugated synthesised phosphopeptide derived from human PPAR Gamma around the phosphorylation site of ser112: PA(p-S)PP.

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 (1:100-500)
ELISA (1:5000-10000)

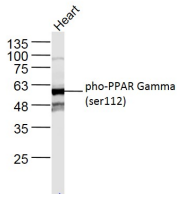
Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Dog, GuineaPig)

Predicted MW.: 57 kDa

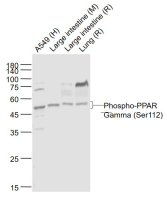
Observed MW.: 52 kDa

Subcellular Location: Nucleus

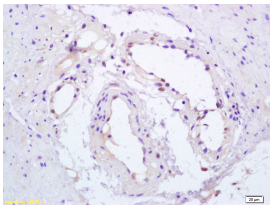
VALIDATION IMAGES



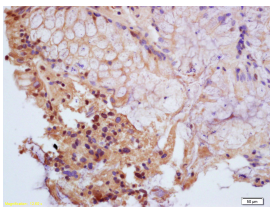
Sample: Heart (Mouse) Lysate at 30 ug Primary: Anti-Phospho-PPAR Gamma (ser112) (bs-3737R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57 kD Observed band size: 52 kD



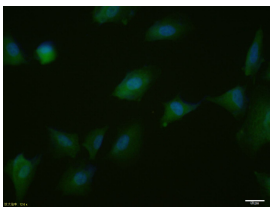
Sample: Lane 1: A549 (Human) Cell Lysate at 30 ug Lane 2: Large intestine (Mouse) Lysate at 40 ug Lane 3: Large intestine (Rat) Lysate at 40 ug Lane 4: Lung (Rat) Lysate at 40 ug Primary: Anti-Phospho-PPAR Gamma (Ser112) (bs-3737R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57 kD Observed band size: 52 kD



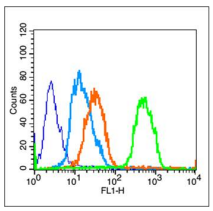
Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Phospho-PPAR Gamma(ser112) Polyclonal Antibody, Unconjugated(bs-3737R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human colon carcinoma; 4%



A549 cell; 4% Paraformaldehyde-fixed; Triton



Blank control (blue line): U251 (fixed with 70%

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-Phospho-PPAR Gamma(ser112) Polyclonal Antibody, Unconjugated(bs-3737R) 1:200, overnight at 4°C , followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Phospho-PPAR Gamma (Ser112)) polyclonal Antibody, Unconjugated (bs-3737R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

ethanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 30 min on ice). Primary Antibody (green line): Rabbit Anti-ho-PPAR Gamma (ser112) antibody (bs-3737R), Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC,Dilution: 1μg /test.

SELECTED CITATIONS

- **[IF=5.4]** Yue Dai. et al. Rucaparib inhibits lung adenocarcinoma cell proliferation and migration via the SHCBP1/CDK1 pathway. FEBS J. 2023 Aug;: Other ;. 37581853
- **[IF=4.868]** Liu YD et al. Rosiglitazone Suppresses Calcium Oxalate Crystal Binding and Oxalate-Induced Oxidative Stress in Renal Epithelial Cells by Promoting PPAR-γ Activation and Subsequent Regulation of TGF-β1 and HGF Expression. Oxid Med Cell Longev. 2019 Nov 12;2019:4826525. ICC ;Dog. 31781338
- **[IF=4.8]** Huang Jun. et al. Adipocyte Subpopulations Mediate Growth Hormone-induced Lipolysis and Glucose Tolerance in Male Mice. ENDOCRINOLOGY. 2023 Oct;164(11): WB ;Mouse. 37897489
- **[IF=4.556]** Yurong Zhao. et al. Deoxynivalenol Exposure Suppresses Adipogenesis by Inhibiting the Expression of Peroxisome Proliferator-Activated Receptor Gamma 2 (PPARγ2) in 3T3-L1 Cells. Int J Mol Sci. 2020 Jan;21(17):6300 WB ;Mouse. 32878272
- **[IF=4.5]** Ying Sun. et al. Cinobufagin inhibits M2-like tumor-associated macrophage polarization to attenuate the invasion and migration of lung cancer cells. INT J ONCOL. 2024 Nov;65(5):1-17 WB ;Human. 39301639