

## Anti-Phospho-PPAR gamma/PPARG (Ser112) Polyclonal Antibody

### Product Details

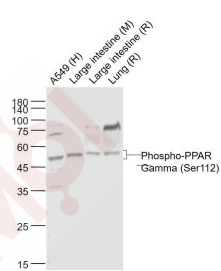
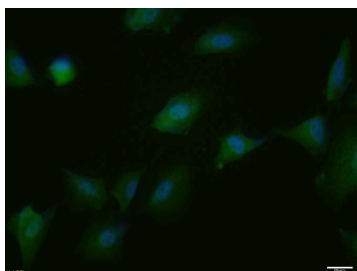
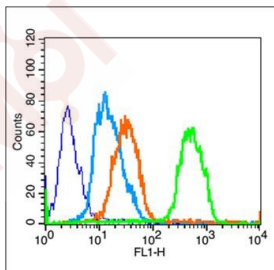
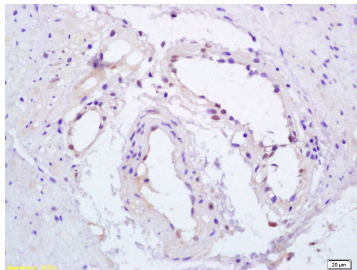
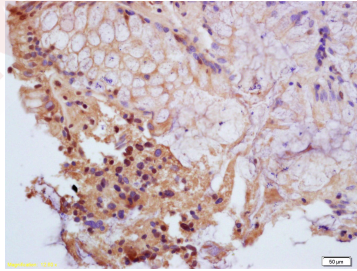
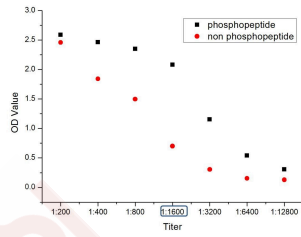
|                   |   |
|-------------------|---|
| Ig Type:          | IgG   |
| Reactivity:       | Human, Mouse, Rat (predicted: Dog, Pig, Rabbit, Guinea Pig) |
| Molecular Weight: | Theoretical: 57 kDa. Actual: 57 kDa.                        |
| Purification:     | Protein A purified  |

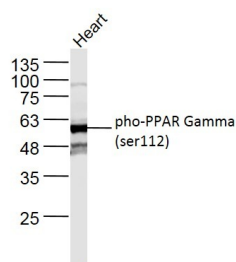
### Applications

- phosphopeptide  
non phosphopeptide
- Tissue/cell: human colon carcinoma; 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;  
Incubation: Anti-Phospho-PPAR Gamma (ser112) Polyclonal Antibody, Unconjugated (TMAB-01484) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
- Tissue/cell: human gastric carcinoma; 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;  
Incubation: Anti-Phospho-PPAR Gamma (ser112) Polyclonal Antibody, Unconjugated (TMAB-01484) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
- Blank control (blue line): U251 (fixed with 70% 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 (TMAB-01484), Dilution: 1 µg/10<sup>6</sup> cells;  
Isotype Control Antibody (orange line): Rabbit IgG.  
Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC, Dilution: 1 µg/test.
- 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 (Phospho-PPAR Gamma (Ser112)) polyclonal Antibody, Unconjugated (TMAB-01484) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.
- Sample:  
Lane 1: A549 (Human) Cell Lysate at 30 µg  
Lane 2: Large intestine (Mouse) Lysate at 40 µg  
Lane 3: Large intestine (Rat) Lysate at 40 µg  
Lane 4: Lung (Rat) Lysate at 40 µg  
Primary: Anti-Phospho-PPAR Gamma (Ser112) (TMAB-01484) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 51 kDa  
Observed band size: 51 kDa
- Sample:  
Heart (Mouse) Lysate at 30 µg

Verified Activity:

Primary: Anti-Phospho-PPAR Gamma (ser112) (TMAB-01484) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 57 kDa  
Observed band size: 57 kDa





Application: ELISA,FCM,ICC/IF,IF,IHC-Fr,IHC-P,WB

Recommended ELISA=1:5000-10000; FCM=1 µg/Test; ICC/IF=1:100-500; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=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 synthesised phosphopeptide: human PPAR Gamma around the phosphorylation site of ser112

Antigen Species: Human

Gene ID: 5468

Uniprot ID: P37231

Synonyms: PPAR gamma/PPARG (p-Ser112);NR1C3;PPAR-gamma;p-PPAR gamma/PPARG (Ser112); PPARG;p-PPAR gamma/PPARG (S112);Peroxisome proliferator-activated receptor gamma; Nuclear receptor subfamily 1 group C member 3;PPAR gamma/PPARG (p-S112)

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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