



# PPAR- $\gamma$ (phospho Ser112) Polyclonal Antibody

|                           |   |
|---------------------------|---|
| <b>Catalog No</b>         | YP-Ab-03281   |
| <b>Isotype</b>            | IgG   |
| <b>Reactivity</b>         | Human;Mouse;Rat   |
| <b>Applications</b>       | WB;ELISA  |
| <b>Gene Name</b>          | PPARG   |
| <b>Protein Name</b>       | Peroxisome proliferator-activated receptor gamma  |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human PPAR-gamma around the phosphorylation site of Ser112. AA range:78-127   |
| <b>Specificity</b>        | Phospho-PPAR- $\gamma$ (S112) Polyclonal Antibody detects endogenous levels of PPAR- $\gamma$ protein only when phosphorylated at S112.   |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source</b>             | Polyclonal, Rabbit,IgG  |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.   |
| <b>Dilution</b>           | Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.   |
| <b>Concentration</b>      | 1 mg/ml   |
| <b>Purity</b>             | $\geq 90\%$   |
| <b>Storage Stability</b>  | -20°C/1 year  |
| <b>Synonyms</b>           | PPARG; NR1C3; Peroxisome proliferator-activated receptor gamma; PPAR-gamma; Nuclear receptor subfamily 1 group C member 3   |
| <b>Observed Band</b>      | 60kD  |
| <b>Cell Pathway</b>       | Nucleus. Cytoplasm. Redistributed from the nucleus to the cytosol through a MAP2K1/MEK1-dependent manner. NOCT enhances its nuclear translocation.  |
| <b>Tissue Specificity</b> | Highest expression in adipose tissue. Lower in skeletal muscle, spleen, heart and liver. Also detectable in placenta, lung and ovary.   |
| <b>Function</b>           | alternative products:Additional isoforms seem to exist,disease:Defects in PPARG are the cause of familial partial lipodystrophy type 3 (FPLD3) [MIM:604367]. Familial partial lipodystrophies (FPLD) are a heterogeneous group of genetic disorders characterized by marked loss of subcutaneous (sc) fat from the extremities. Affected individuals show an increased preponderance of insulin resistance, diabetes mellitus and dyslipidemia.,disease:Defects in PPARG can lead to type 2 insulin-resistant diabetes and hypertension.,disease:Defects in PPARG may be associated with colon cancer.,disease:Defects in PPARG may be associated with susceptibility to obesity [MIM:601665].,disease:Variation in PPARG is associated with carotid intimal medial thickness 1 (CMT1) [MIM:609338]. CMT is a measure of atherosclerosis that is independently associated with traditional atherosclerotic cardiovascular disease |



## Background

peroxisome proliferator activated receptor gamma(PPARG) Homo sapiens  
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],

## matters needing attention

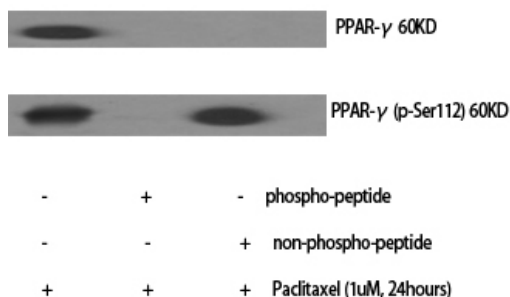
Avoid repeated freezing and thawing!

## Usage suggestions

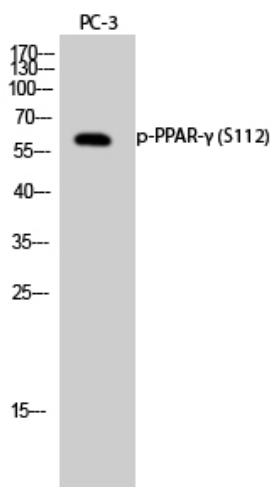
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

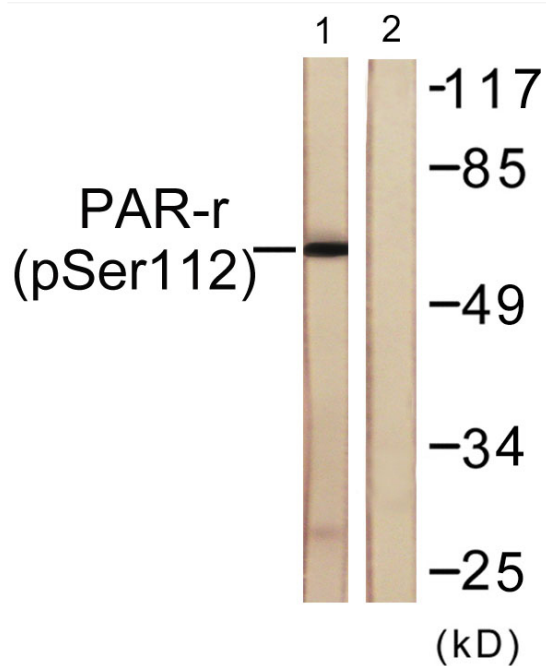
## Products Images

Western Blot analysis of various cells using  
Phospho-PPAR-γ (S112) Polyclonal Antibody diluted a  
1:500



Western Blot analysis of PC-3 cells using  
Phospho-PPAR-γ (S112) Polyclonal Antibody diluted a  
1:500





Western blot analysis of lysates from Jurkat cells treated with Paclitaxel 1uM 24h, using PPAR-gamma (Phospho-Ser112) Antibody. The lane on the right is blocked with the phospho peptide.