

**PPAR- $\gamma$  Polyclonal Antibody**

<b>Catalog No :</b>	YT3836
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	IF;WB;IHC;ELISA
<b>Target :</b>	PPAR- $\gamma$
<b>Fields :</b>	>>PPAR signaling pathway;>>AMPK signaling pathway;>>Longevity regulating pathway;>>Osteoclast differentiation;>>Thermogenesis;>>Non-alcoholic fatty liver disease;>>Huntington disease;>>Pathways in cancer;>>Transcriptional misregulation in cancer;>>Thyroid cancer;>>Lipid and atherosclerosis
<b>Gene Name :</b>	PPARG
<b>Protein Name :</b>	Peroxisome proliferator-activated receptor gamma
<b>Human Gene Id :</b>	5468
<b>Human Swiss Prot No :</b>	P37231
<b>Mouse Gene Id :</b>	19016
<b>Mouse Swiss Prot No :</b>	P37238
<b>Rat Gene Id :</b>	25664
<b>Rat Swiss Prot No :</b>	O88275
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human PPAR-gamma. AA range:78-127
<b>Specificity :</b>	PPAR- $\gamma$ Polyclonal Antibody detects endogenous levels of PPAR- $\gamma$ protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

**Dilution :** IF 1:50-200 WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000. Not yet tested in other applications.

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**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 57kD

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**Cell Pathway :** Protein\_Acetylation

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**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],

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**Function :** 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 (CIMT1) [MIM:609338]. CIMT is a measure of atherosclerosis that is independently associated with traditional atherosclerotic cardiovascular disease

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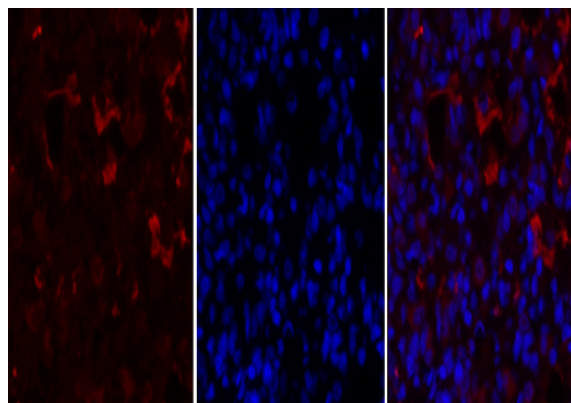
**Subcellular Location :** Nucleus. Cytoplasm. Redistributed from the nucleus to the cytosol through a MAP2K1/MEK1-dependent manner. NOCT enhances its nuclear translocation.

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**Expression :** Highest expression in adipose tissue. Lower in skeletal muscle, spleen, heart and liver. Also detectable in placenta, lung and ovary.

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## Products Images

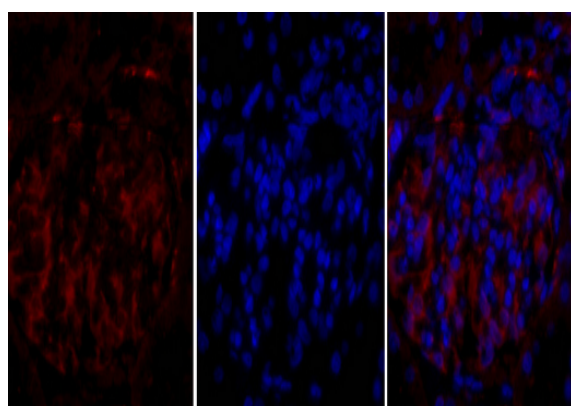


A

B

C

Immunofluorescence analysis of rat-lung tissue. 1,PPAR- $\gamma$  Polyclonal Antibody(red) was diluted at 1:200(4 °C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

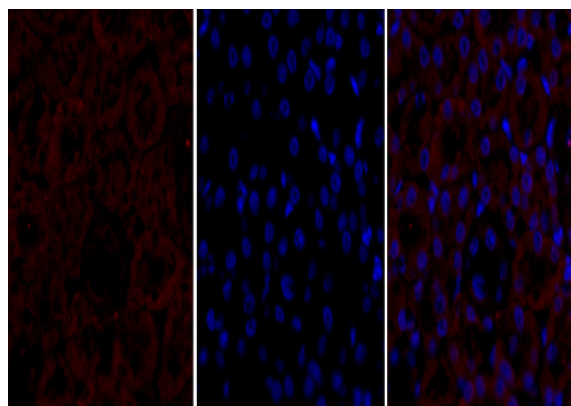


A

B

C

Immunofluorescence analysis of rat-kidney tissue. 1,PPAR- $\gamma$  Polyclonal Antibody(red) was diluted at 1:200(4 °C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

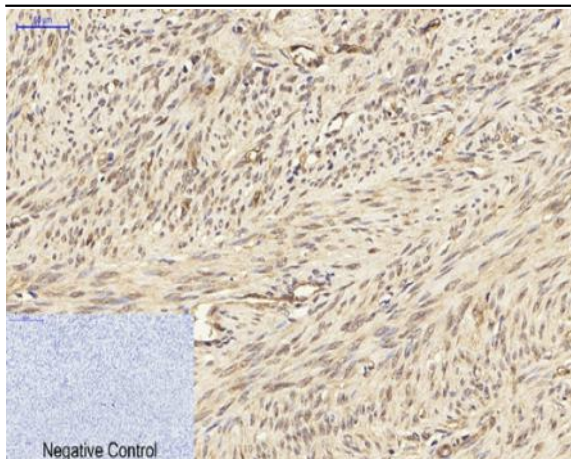


A

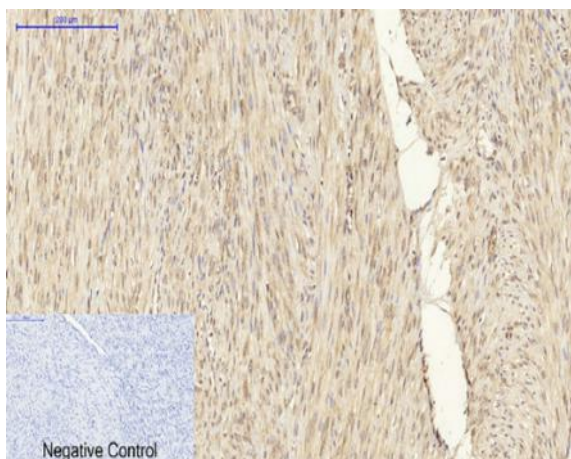
B

C

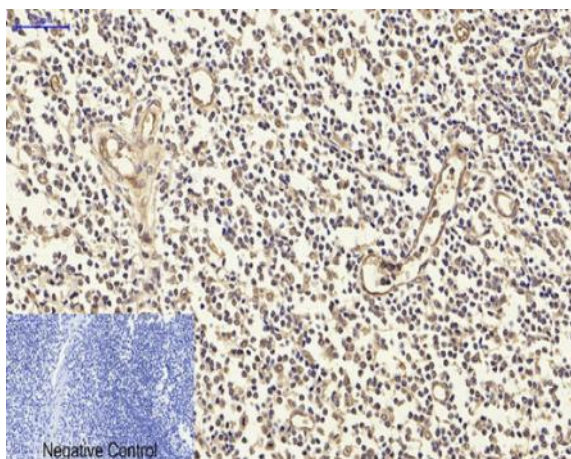
Immunofluorescence analysis of mouse-kidney tissue. 1,PPAR- $\gamma$  Polyclonal Antibody(red) was diluted at 1:200(4 °C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



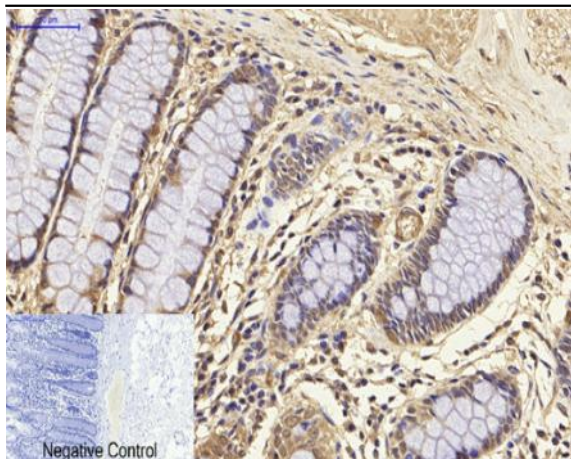
Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1,PPAR- $\gamma$  Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



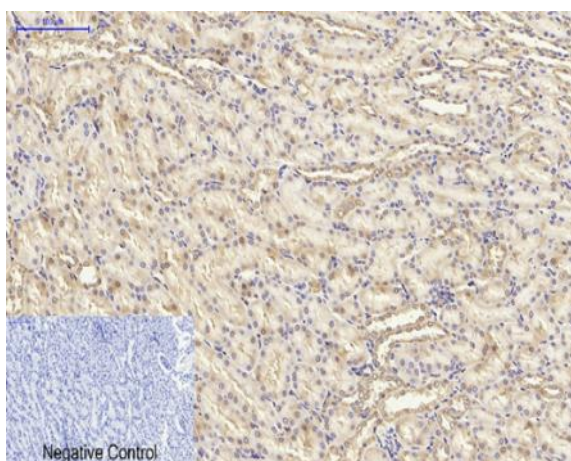
Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1,PPAR- $\gamma$  Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



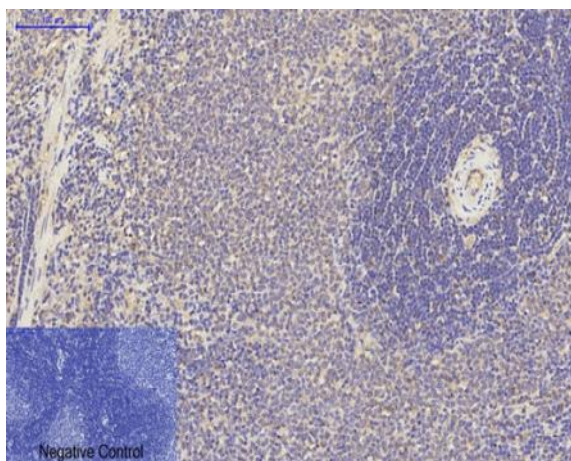
Immunohistochemical analysis of paraffin-embedded Human-Tonsil tissue. 1,PPAR- $\gamma$  Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



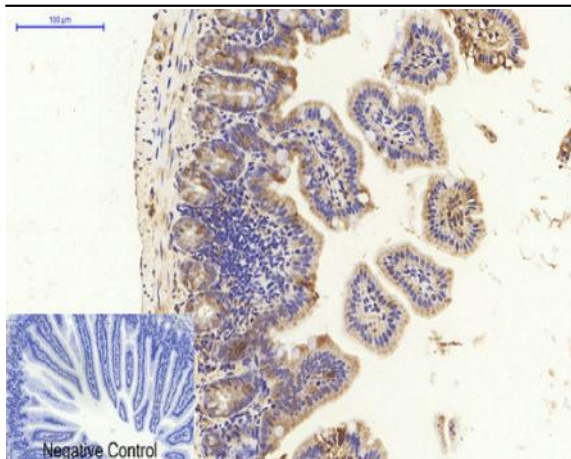
Immunohistochemical analysis of paraffin-embedded Human-colon tissue. 1,PPAR- $\gamma$  Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



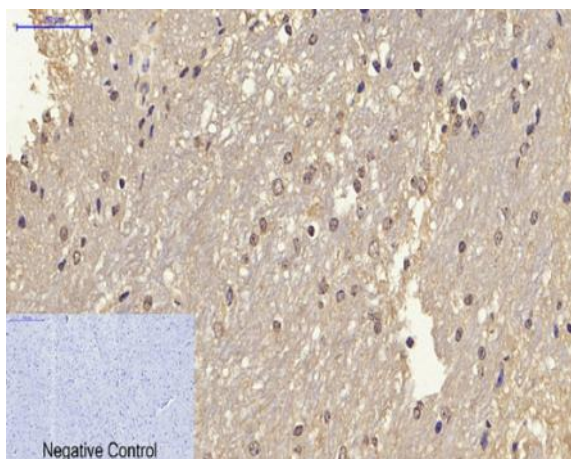
Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1,PPAR- $\gamma$  Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-spleen tissue. 1,PPAR- $\gamma$  Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.

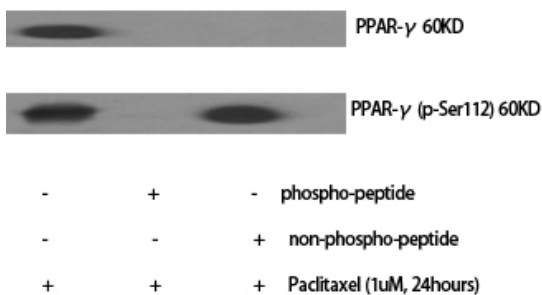


Immunohistochemical analysis of paraffin-embedded Mouse-colon tissue. 1,PPAR- $\gamma$  Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.

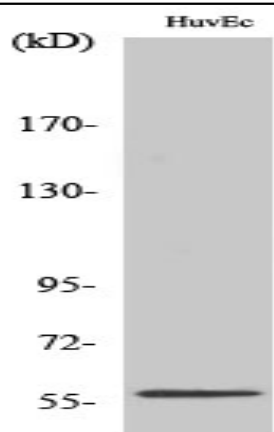


Immunohistochemical analysis of paraffin-embedded Mouse-brain tissue. 1,PPAR- $\gamma$  Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.

Western Blot analysis of various cells using PPAR- $\gamma$  Polyclonal Antibody diluted at 1:1000



-            +            -    phospho-peptide  
 -            -            +    non-phospho-peptide  
 +            +            +    Paclitaxel (1 $\mu$ M, 24hours)



Western Blot analysis of HuvEc cells using PPAR- $\gamma$  Polyclonal Antibody diluted at 1:1000