PPAR-γ (PT0357R) PT™ Rabbit mAb

CatalogNo: YM8211   **Recombinant** Ⓡ

Key Features

Host Species
• Rabbit

Reactivity
• Human,Mouse

Applications
• WB,IHC,IF,IP,ELISA

MW
• 58kD (Calculated)
53kD (Observed)

Isotype
• IgG,Kappa

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Recommended Dilution Ratios

IHC 1:500-1:1000
WB 1:2000-1:10000
IF 1:200-1:1000
ELISA 1:5000-1:20000
IP 1:50-1:200

Basic Information

Clonality	Monoclonal
Clone Number	PT0357R

Immunogen Information

Specificity	Endogenous

Target Information

Gene name	PPARG

Protein Name	Peroxisome proliferator-activated receptor gamma

Organism	Gene ID	UniProt ID
Human	5468;	P37231;
Mouse	19016;	P37238;

Cellular Localization	Nucleus. Cytoplasm. Redistributed from the nucleus to the cytosol through a MAP2K1/MEK1-dependent manner. NOCT enhances its nuclear translocation.

Tissue specificity	Highest expression in adipose tissue. Lower in skeletal muscle, spleen, heart and liver. Also detectable in placenta, lung and ovary.

| **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 hyptertension.,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 risk factors and coronary atherosclerotic burden. 35 to 45% of the variability in multivariable-adjusted CIMT is explained by genetic factors.,Function:Receptor that binds peroxisome proliferators such as hypolipidemic drugs and fatty acids. Once activated by a ligand, the receptor binds to a promoter element in the gene for acyl-CoA oxidase and activates its transcription. It therefore controls the peroxisomal beta-oxidation pathway of fatty acids. Key regulator of adipocyte differentiation and glucose homeostasis.,online information:Peroxisome proliferator-activated receptor entry,online information:The Singapore human mutation and polymorphism database,polymorphism:Genetic variation in PPARG may influence body mass index (BMI) [MIM:606641]. BMI reflects the amount of fat, lean mass, and body build.,similarity:Belongs to the nuclear hormone receptor family.,similarity:Belongs to the nuclear hormone receptor family. NR1 subfamily.,similarity:Contains 1 nuclear receptor DNA-binding domain.,subunit:Forms a heterodimer with the retinoic acid receptor RXRA called adipocyte-specific transcription factor ARF6. Interacts with NCOA6 coactivator, leading to a strong increase in transcription of target genes. Interacts with coactivator PPARBP, leading to a mild increase in transcription of target genes. Interacts with FAM120B (By similarity). Interacts with NOCA7 in a ligand-inducible manner. Interacts with NCOA1 LXXLL motifs. Interacts with TGFB1I1. Interacts with DNTTIP2.,tissue specificity:Highest expression in adipose tissue. Lower in skeletal muscle, spleen, heart and liver. Also detectable in placenta, lung and ovary.,

Validation Data
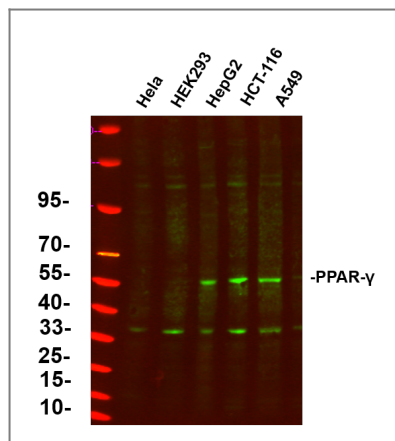
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4℃, over night with a 1:2500 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody(Cat:RS23920) was used to detect the antibody. Lane1: Hela - Human cervical cancer Lane2: HEK293 - Human normal embryonic kidney Lane3: HepG2 - Human hepatocellular carcinoma Lane4: HCT-116 - Human colon cancer Lane5: A549 - Human lung adenocarcinoma Predicted band size: 50kDa Observed band size: 50kDa
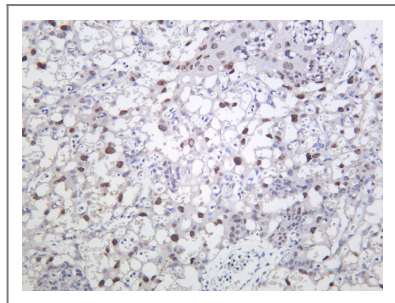
Mouse placenta was stained with anti-PPARγ (PT0357R) Rabbit antibody
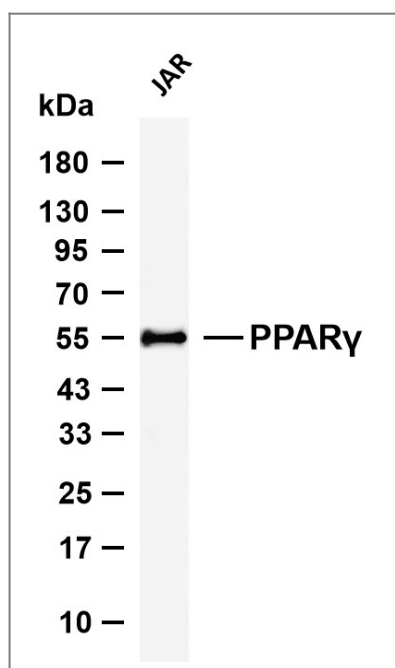
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PPARγ (PT0357R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: JAR Predicted band size: 58kDa Observed band size: 53kDa

▍Contact information

Please scan the QR code to access additional product information: **PPAR-γ (PT0357R) PT™ Rabbit mAb**

For Research Use Only. Not for Use in Diagnostic Procedures.