

Product datasheet for **TA336911**

PPAR gamma (PPARG) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	Immunoprecipitation, Immunohistochemistry: 1:100, Western Blot: 2 ug/ml, Immunohistochemistry-Paraffin: 1:100
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to an internal portion of the human PPAR gamma protein (between residues 20-120) [UniProt P37231]
Formulation:	PBS, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	55 kDa
Gene Name:	peroxisome proliferator activated receptor gamma
Database Link:	NP_056953 Entrez Gene 19016 Mouse Entrez Gene 5468 Human P37231

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Background:

Peroxisome proliferator-activated receptor gamma (PPARG), also known as nuclear receptor subfamily 1 group C member 3, NR1C3, GLM1, CMT1, PPARG1, PPARG2, and PPARGgamma, regulates adipocyte differentiation and binds peroxisome proliferators that include hypolipidemic drugs and fatty acids. PPARG regulates the peroxisomal beta-oxidation pathway of these fatty acids. PPARG activates transcription for acyl-CoA oxidase and regulates glucose homeostasis. PPARG is a member of the PPAR family, which is a subfamily of nuclear receptors. PPARG is found in the nucleus and the cytoplasm and is most prevalent in adipose tissue but also found in skeletal muscle, spleen, heart, liver, placenta, lung, and ovary. PPARG is found in three known isoforms (57.6, 54.8, and 21.6 kDa), which are produced by alternative splicing. The PPARG protein is subject to phosphorylation. PPARG has been linked to many diseases such as obesity, diabetes, atherosclerosis, and cancer. Recent research has indicated that mutations in PPARG play a role in non-alcoholic fatty liver disease (PMID: 22160635). Other research has found that using PPARG ligands as part of a chemotherapy treatment could help improve treatment for advanced pancreatic cancer (PMID: 22020928). Similar cancer research discovered that PPARG can be used to induce colorectal carcinoma cell death, making PPARG, in conjunction with survivin and caspase-3, a potential cancer cell regulator (PMID: 21765467).

Synonyms:

CMT1; GLM1; NR1C3; PPARG1; PPARG2; PPARGgamma

Note:

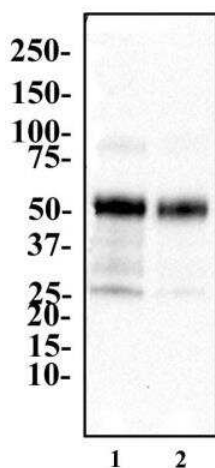
This PPAR gamma antibody is useful for Immunohistochemistry paraffin embedded sections and Western blot, where a band is detected at ~55 kDa. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.

Protein Families:

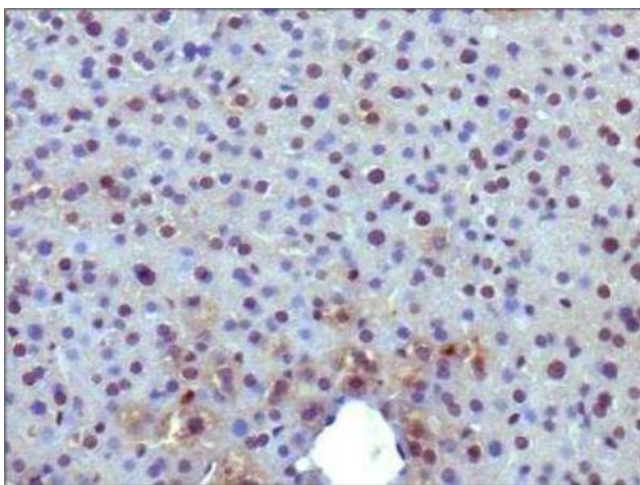
Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Protein Pathways:

Huntington's disease, Pathways in cancer, PPAR signaling pathway, Thyroid cancer

Product images:


Western Blot: PPAR gamma Antibody TA336911 - Western blot analysis of PPAR gamma in 1. human adipose and 2. human adrenal lysate.



Immunohistochemistry-Paraffin: PPAR gamma Antibody TA336911 - IHC analysis of PPAR gamma in mouse liver.