

Rabbit PPAR gamma Polyclonal Antibody | anti-PPARG antibody

Anti-PPAR gamma Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA292847	Rabbit	Human, Mouse, Rat, Rabbit, Dog	Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Western Blot

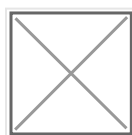
PRODUCT SYNONYMS

PPAR gamma; Polyclonal Antibody; Anti-PPAR gamma Antibody; Rabbit polyclonal antibody to PPAR gamma; NR1C3; Peroxisome proliferator-activated receptor gamma; PPAR-gamma; Nuclear receptor subfamily 1 group C member 3; anti-PPARG antibody

PRODUCT SPECIFICATIONS

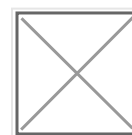
Host	Rabbit
Reactivity	Human, Mouse, Rat, Rabbit, Dog
Clonality	Polyclonal
Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PPAR gamma. The exact sequence is proprietary.
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Applicable Applications for anti-PPARG antibody	IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Application Notes	WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500); IHC~~1:100~500
Preparation and Storage	Store at -20 °C.Stable for 12 months from date of receipt

IMAGES



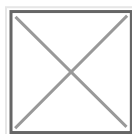
WB (Western Blot)

Western blot analysis of PPAR gamma expression in Hela (A), rat ovary (B), mouse spleen (C), LO2 (D) whole cell lysates.



IHC (Immunohistochemistry)

Immunohistochemical analysis of PPAR gamma staining in human colon formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



IF (Immunofluorescence)

Immunofluorescent analysis of PPAR gamma staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

ADDITIONAL INFORMATION

Related Product Information for anti-PPARG antibody	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PPAR gamma. The exact sequence is proprietary. Function: Ligand-activated transcription factor that forms obligate heterodimers with the retinoic acid receptor and acts as a key regulator of biological processes, such as adipocyte differentiation, lipid metabolism, glucose homeostasis and beta-oxidation of fatty acids (PubMed:16150867, PubMed:20829347, PubMed:23525231, PubMed:8702406, PubMed:8706692, PubMed:9065481). Activated by lipid ligands: binds peroxisome proliferators, such as hypolipidemic drugs, and fatty acids, such as prostaglandin J2 metabolites (PubMed:16150867, PubMed:20829347, PubMed:23525231, PubMed:8702406, PubMed:8706692, PubMed:9065481). Ligand-binding results in a conformational change in the receptor, promoting dissociation of repressors and recruitment of coactivators, and subsequent activation of target gene expression (PubMed:16150867, PubMed:20829347, PubMed:23525231, PubMed:8702406, PubMed:8706692, PubMed:9065481). Specifically binds to DNA specific PPAR response elements (PPRE) and modulates the transcription of its target genes, such as acyl-CoA oxidase (By similarity). Acts as a critical regulator of gut homeostasis by suppressing NF-kappa-B-mediated pro-inflammatory responses (PubMed:20829347). Plays a role in the regulation of cardiovascular circadian rhythms by regulating the transcription of BMAL1 in the blood vessels (By similarity). Cellular Location: Nucleus. Cytoplasm Note=Redistributed from the nucleus to the cytosol through a MAP2K1/MEK1-dependent manner (PubMed:17101779). NOCT enhances its nuclear translocation (By similarity). {ECO:0000250 UniProtKB:P37238, ECO:0000269 PubMed:17101779} Tissue Location: Highest expression in adipose tissue. Lower in skeletal muscle, spleen, heart and liver. Also detectable in placenta, lung and ovary.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	116284368
NCBI GeneID	5468
NCBI Accession #	NP_005028.4
NCBI GenBank Nucleotide #	NM_005037.5
UniProt Accession #	P37231; P37238
Molecular Weight	57620
NCBI Official Full Name	peroxisome proliferator-activated receptor gamma isoform 1
NCBI Official Synonym Full Names	peroxisome proliferator-activated receptor gamma
NCBI Official Symbol	PPARG
NCBI Official Synonym Symbols	GLM1; CIMT1; NR1C3; PPARG1; PPARG2; PPARGgamma
NCBI Protein Information	peroxisome proliferator-activated receptor gamma; PPAR gamma; PPAR-gamma; nuclear receptor subfamily 1 group C member 3; peroxisome proliferator-activated receptor gamma 1; peroxisome proliferator-activated nuclear receptor gamma variant 1
UniProt Protein Name	Peroxisome proliferator-activated receptor gamma
UniProt Gene Name	PPARG
UniProt Synonym Gene Names	NR1C3; PPAR-gamma
UniProt Entry Name	PPARG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.