

Goat Anti-PPAR delta (Isoform 1) Antibody
Peptide-affinity purified goat antibody
Catalog # AF1851a**Specification**

Goat Anti-PPAR delta (Isoform 1) Antibody - Product Information

Application	WB, E
Primary Accession	Q03181
Other Accession	NP_006229 , 5467
Reactivity	Human, Rat
Predicted	Mouse, Pig
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	49903

Goat Anti-PPAR delta (Isoform 1) Antibody - Additional Information**Gene ID** 5467**Other Names**

Peroxisome proliferator-activated receptor delta, PPAR-delta, NUC1, Nuclear hormone receptor 1, NUC1, Nuclear receptor subfamily 1 group C member 2, Peroxisome proliferator-activated receptor beta, PPAR-beta, PPARD, NR1C2, PPARB

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-PPAR delta (Isoform 1) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PPAR delta (Isoform 1) Antibody - Protein Information**Name** PPARD ([HGNC:9235](#))**Synonyms** NR1C2, PPARB

Function

Ligand-activated transcription factor key mediator of energy metabolism in adipose tissues (PubMed:35675826). Receptor that binds peroxisome proliferators such as hypolipidemic drugs and fatty acids. Has a preference for poly-unsaturated fatty acids, such as gamma- linoleic acid and eicosapentanoic acid. Once activated by a ligand, the receptor binds to promoter elements of target genes. Regulates the peroxisomal beta-oxidation pathway of fatty acids. Functions as transcription activator for the acyl-CoA oxidase gene. Decreases expression of NPC1L1 once activated by a ligand.

Cellular Location

Nucleus.

Tissue Location

Ubiquitous with maximal levels in placenta and skeletal muscle

Goat Anti-PPAR delta (Isoform 1) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-PPAR delta (Isoform 1) Antibody - Images

AF1851a 0.3x µg/ml) staining of MOLT4 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-PPAR delta (Isoform 1) Antibody - Background

This gene encodes a member of the peroxisome proliferator-activated receptor (PPAR) family. PPARs are nuclear hormone receptors that bind peroxisome proliferators and control the size and

number of peroxisomes produced by cells. PPARs mediate a variety of biological processes, and may be involved in the development of several chronic diseases, including diabetes, obesity, atherosclerosis, and cancer. This protein is a potent inhibitor of ligand-induced transcription activity of PPAR alpha and PPAR gamma. It may function as an integrator of transcription repression and nuclear receptor signaling. The expression of this gene is found to be elevated in colorectal cancer cells. The elevated expression can be repressed by adenomatosis polyposis coli (APC), a tumor suppressor protein related to APC/beta-catenin signaling pathway. Knockout studies in mice suggested the role of this protein in myelination of the corpus callosum, lipid metabolism, and epidermal cell proliferation. Alternate splicing results in multiple transcript variants.

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Mitochondrial biogenesis related endurance genotype score and sports performance in athletes. Eynon N, et al. Mitochondrion, 2010 Jul 18. PMID 20647061.

+294T/C polymorphism in the PPAR-delta gene is associated with risk of coronary artery disease in normolipidemic Tunisians. Jguirim-Souissi I, et al. Genet Mol Res, 2010 Jul 13. PMID 20645257.

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Polymorphisms in PPARD, PPARG and APM1 associated with four types of traditional Chinese medicine constitutions. Wu Y, et al. J Genet Genomics, 2010 Jun. PMID 20621019.

Association of the CYBA, PPARGC1A, PPARG3, and PPARD gene variants with coronary artery disease and metabolic risk factors of coronary atherosclerosis in a Russian population. Nikitin AG, et al. Heart Vessels, 2010 May. PMID 20512451.