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PPARD Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP11939b

Specification

PPARD Antibody (C-term) Blocking peptide - Product Information

Primary Accession Q03181

PPARD Antibody (C-term) Blocking peptide - Additional Information

Gene ID 5467

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PPARD Antibody (C-term) Blocking peptide - 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

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PPARD Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

PPARD Antibody (C-term) Blocking peptide - Images

PPARD Antibody (C-term) Blocking peptide - Background

This gene encodes a member of the peroxisomeproliferator-activated receptor (PPAR) family. PPARs are nuclearhormone receptors that bind peroxisome proliferators and controlthe size and number of peroxisomes produced by cells. PPARs mediatea variety of biological processes, and may be involved in thedevelopment of several chronic diseases, including diabetes,obesity, atherosclerosis, and cancer. This protein is a potentinhibitor of ligand-induced transcription activity of PPAR alphaand PPAR gamma. It may function as an integrator of transcriptionrepression and nuclear receptor signaling. The expression of thisgene is found to be elevated in colorectal cancer cells. Theelevated expression can be repressed by adenomatosis polyposis coli(APC), a tumor suppressor protein related to APC/beta-cateninsignaling pathway. Knockout studies in mice suggested the role ofthis protein in myelination of the corpus callosum, lipidmetabolism, and epidermal cell proliferation. Alternate splicingresults in multiple transcript variants.

PPARD Antibody (C-term) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Christopoulos, P., et al. Ann. N. Y. Acad. Sci. 1205, 185-191 (2010) :Dunn, S.E., et al. J. Exp. Med. 207(8):1599-1608(2010)Eynon, N., et al. Mitochondrion (2010) In press :Jguirim-Souissi, I., et al. Genet. Mol. Res. 9(3):1326-1333(2010)