Datasheet for ABIN105799

anti-PPARD antibody (N-Term)

3 Images | 1 Publication

Go to Product page

Overview

Quantity:	100 µg
Target:	PPARD
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	PPAR delta Antibody
Immunogen:	Immunogen: Anti-PPAR delta antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the amino terminus of mouse PPAR delta. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against mouse PPAR delta protein.
Characteristics:	Synonyms: rabbit anti-PPAR delta antibody, PPARD, PPARB, NR1C2, PPAR-delta, NUCI, Nuclear hormone receptor 1 antibody, Nuclear receptor subfamily 1 group C member 2 antibody, Nuclear hormone receptor 1, NUC-1, Peroxisome proliferative activated receptor delta antibody, Peroxisome proliferator-activated receptor beta, PPAR-beta
Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity

Product Details

	chromatography.
Sterility:	Sterile filtered

Target Details

Target:	PPARD
Alternative Name:	Ppard (PPARD Products)
Background:	Background: Since their discovery in the early 1990's, the peroxisome proliferator activated receptors (PPARs) have attracted significant attention. This is primarily because PPARs serve as receptors for two very important classes of drugs: the hypolipidemic fibrates and the insulin sensitizing thiazolidinediones. Peroxisome proliferators are non-genotoxic carcinogens that are purported to exert their effect on cells through their interaction with members of the nuclear hormone receptor family termed PPARs. Nuclear hormone receptors are ligand-dependent intracellular proteins that stimulate transcription of specific genes by binding to specific DNA sequences following activation by the appropriate ligand. Upon binding fatty acids or hypolipidemic drugs, PPARs form heterodimers with retinoid X receptors (RXRs) and these heterodimers regulate the expression of target genes. There are 3 known subtypes of PPARs: PPAR-alpha, PPAR-delta and PPAR-gamma. Mostly target genes are involved in the catabolism of fatty acids. Conversely, PPAR-gamma is activated by peroxisome proliferators such as prostaglandins, leukotrienes and anti-diabetic thiazolidinediones and affects the expression of genes involved in the storage of the fatty acids. PPAR-gamma may also be involved in adipocyte differentiation. It has also been shown that PPARs can induce transcription of acyl coenzyme A oxidase and cytochrome P450 through interaction with specific response elements.
Gene ID:	19015, 548577
UniProt:	P35396
Pathways:	Nuclear Receptor Transcription Pathway, Positive Regulation of Peptide Hormone Secretion, Steroid Hormone Mediated Signaling Pathway, Monocarboxylic Acid Catabolic Process, Smooth Muscle Cell Migration, Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	Immunohistochemistry Dilution: 1:500 Application Note: This affinity purified antibody has been tested for use in ELISA, IHC, and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a

Application Details

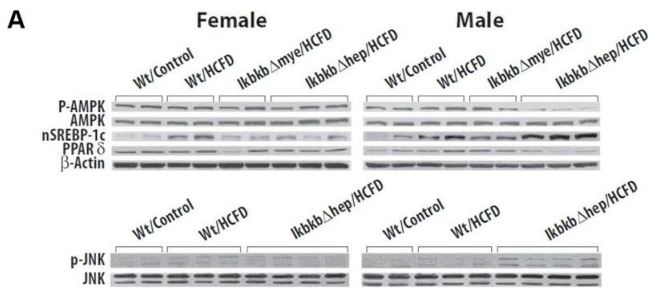
	single band approximately 43 kDa in size corresponding to PPAR delta by western blot in the appropriate tissue or cell lysate. Western Blot Dilution: 1:500 - 1:5,000 ELISA Dilution: 1:30,000 - 1:70,000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.57 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

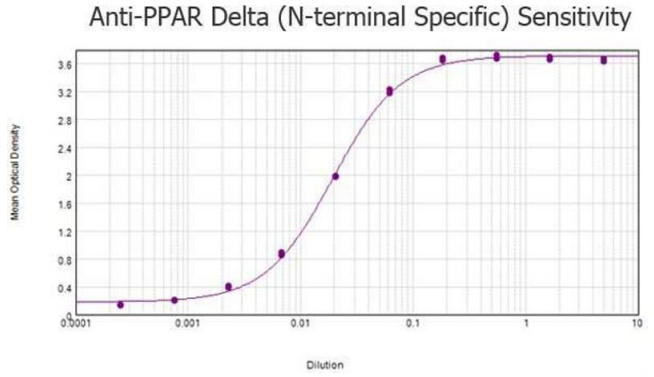
Publications

Product cited in:	Matsushita, Hassanein, Martinez-Clemente, Lazaro, French, Xie, Lai, Karin, Tsukamoto: "Gender difference in NASH susceptibility: Roles of hepatocyte Ikkβ and Sult1e1." in: **PLoS ONE**, Vol. 12, Issue 8, pp. e0181052, (2017) (PubMed).



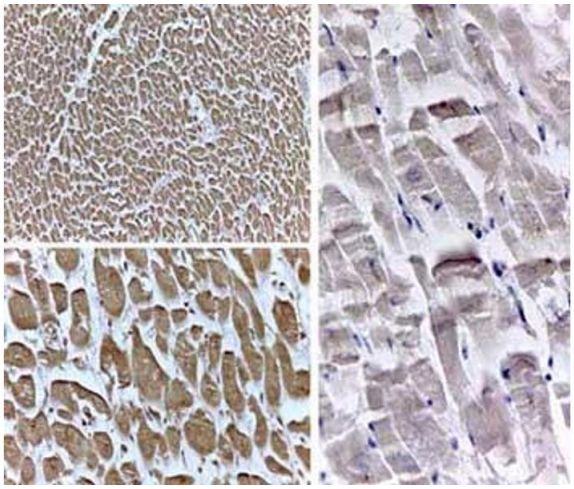
Western Blotting

Image 1. Upregulation of lipogenic genes and down-regulation of lipolytic genes associated with NASH induction and aggravation.Wild type (Wt), myeloid IKKβ deficient (IkbkbΔmye), or hepatocyte IKKβ deficient (IkbkbΔhep) mice in both genders, were fed regular chow (Control) or high cholesterol and saturated fat diet (HCFD) from 2.5 months of age for 20 weeks. (A) Immunoblotting of whole liver lysate and (B) densitometric analysis of pAMPK/AMPK, nSREBP-1c, PPARδ, pJNK-1/JNK-1, and pJNK-2/JNK-2. (C) Plasma adiponectin levels measured by ELISA. (D) Real-time PCR results of PPAR α, δ, and γ genes. *p<0.05, **p<0.01, ***p<0.001 compared to Control diet within gender and within genotype. p<0.05, p<0.01 compared to other genotype within gender and within diet. - figure provided by CiteAb. Source: PMID28797077



ELISA

Image 2. ELISA results of purified Rabbit anti-PPAR Delta (N-terminal specific) Antibody tested against BSA-conjugated peptide of immunizing peptide. Each well was coated in duplicate with 0.1µg of conjugate. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using 3% fish gel, Goat anti-Rabbit IgG Antibody Peroxidase Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Ms Rt & Sh Serum Proteins) and TMB ELISA Peroxidase Substrate .



Immunohistochemistry

Image 3. Rabbit Anti-PPAR delta (N terminal specific) 1:500