Datasheet for ABIN105799

# anti-PPARD antibody

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## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | PPARD |
| Reactivity: | Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This PPARD antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA |

## Product Details

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| Immunogen: | This affinity purified 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. |
| Isotype: | IgG |
| Characteristics: | Concentration Definition: by UV absorbance at 280 nm |

## Target Details

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| Target: | PPARD |
| Alternative Name: | PPAR Delta (PPARD Products) |
| 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 |

## Target Details

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|---|---|
| | 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<br>Synonyms: MGC3931 antibody, NR1C2 antibody, NUC1 antibody, NUCI antibody, NUCII antibody, Nuclear hormone receptor 1 antibody, Nuclear receptor subfamily 1 group C member 2 antibody, Peroxisome proliferative activated receptor delta antibod |
| 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

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| Application Notes: | This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a single band approximately 43 kDa in size corresponding to PPAR delta by western blot in the appropriate tissue or cell lysate. |
| Restrictions: | For Research Use only |

## Handling

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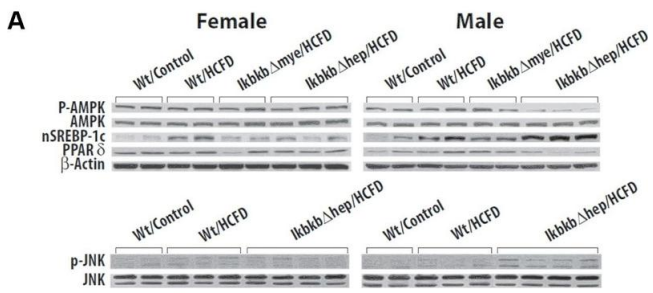
|---|---|
| Format: | Liquid |
| Concentration: | 1.57 mg/mL |
| Buffer: | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C |

## Publications

Product cited in:

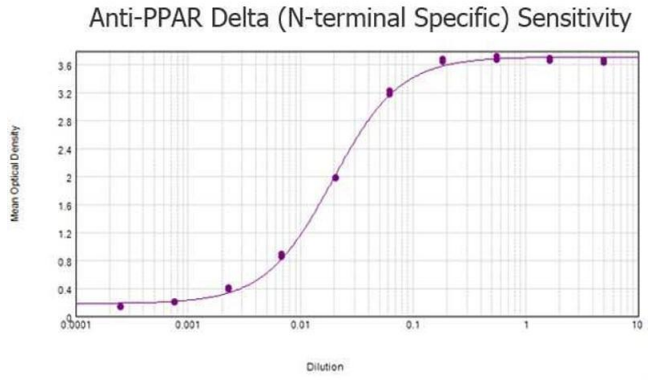
Treise, Huber, Klein-Rodewald, Heinemeyer, Grassmann, Basler, Adler, Rathkolb, Helming, Andres, Klaften, Landbrecht, Wieland, Strom, McCoy, Macpherson, Wolf, Groettrup, Ollert, Neff, Gailus-Durner et al.: "Defective immuno- and thymoproteasome assembly causes severe immunodeficiency. ..." in: **Scientific reports**, Vol. 8, Issue 1, pp. 5975, (2018) (PubMed).

## Images




### Western Blotting

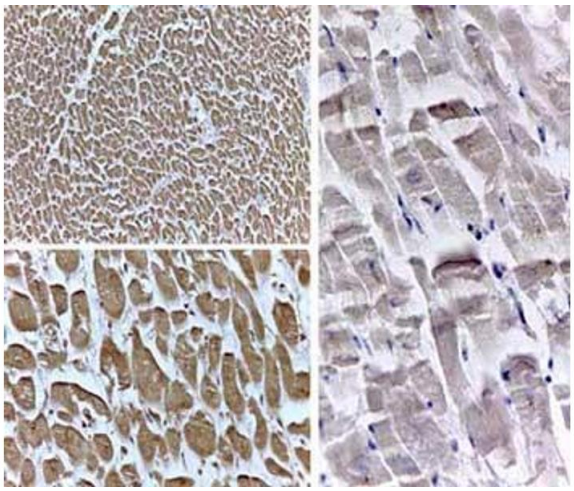
**Image 1.** Upregulation of lipogenic genes and down-regulation of lipolytic genes associated with NASH induction and aggravation.Wild type (Wt), myeloid IKKβ deficient (IkbkbΔmye), or hepatocyte IKKβ deficient (IkbkbΔhep) mice in both genders, were fed regular chow (Control) or high cholesterol and 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