

Product Datasheet

PPAR delta/NR1C2 Antibody - N-terminal - BSA Free NB600-637

Unit Size: 0.1 mg

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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NB600-637

PPAR delta/NR1C2 Antibody - N-terminal - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

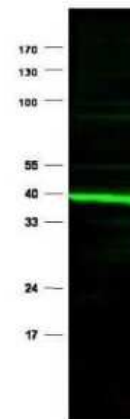
Product Description	
Description	<p>This affinity purified antibody is directed against mouse PPAR delta/NR1C2 protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography</p> <p>Store vial at -20C prior to opening. Aliquot contents and freeze at -20C or below 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 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
Host	Rabbit
Gene ID	5467
Gene Symbol	PPARD
Species	Human, Mouse, Rat
Reactivity Notes	A BLAST analysis was used to suggest reactivity with this protein from mouse and rat sources based on 100% homology for the immunogen sequence. Cross-reactivity with PPAR delta protein from human, chimpanzee and rabbit may occur as this sequence shows 85% homology with the protein from these sources. Cross-reactivity with PPAR delta homologues from other sources has not been determined. No reactivity is expected against other subtypes of PPAR.
Specificity/Sensitivity	No reactivity is expected against other subtypes of PPAR.
Immunogen	PPAR delta/NR1C2 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/NR1C2. (Uniprot: P35396)

Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500-1:5000, ELISA 1:30000-1:70000, Immunohistochemistry 1:500, Immunohistochemistry-Paraffin 1:10-1:500
Application Notes	<p>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 single band approximately 43 kDa in size corresponding to PPAR delta by western blot in the appropriate tissue or cell lysate.</p> <p>IHC-P use reported by customer in Gerbil stomach tissue.</p>

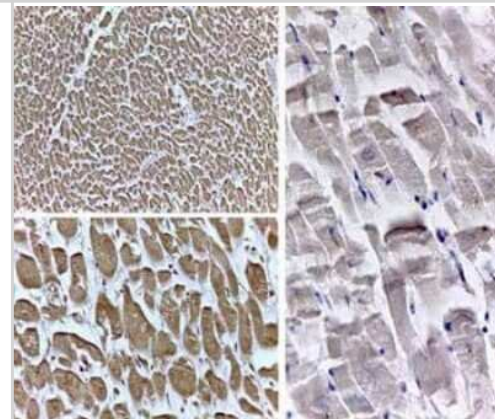


Images

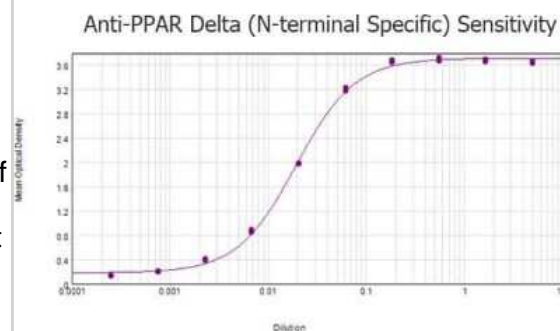
Western Blot: PPAR delta/NR1C2 Antibody - N-terminal [NB600-637] - Affinity Purified PPAR delta/NR1C2/NR1C2 antibody is shown to detect a predominant band at ~ 40kDa corresponding to PPAR delta/NR1C2 present in mouse heart whole cell lysates. Preincubation of the antibody with the immunizing peptide completely blocks reactivity with this band (data not shown). Approximately 30ug of lysate was loaded per lane for SDS-PAGE. Detection occurred using a 1:750 dilution of primary antibody diluted in 5% BLOTTO in PBS overnight at 4 C followed reaction with a 1:10,000 dilution of IRDye(R) 800 conjugated Gt-a-Rabbit IgG (H&L) for 45 min at room temperature (800 nm channel, green). IRDye(R) 800 fluorescence image was captured using the Odyssey(R) Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.



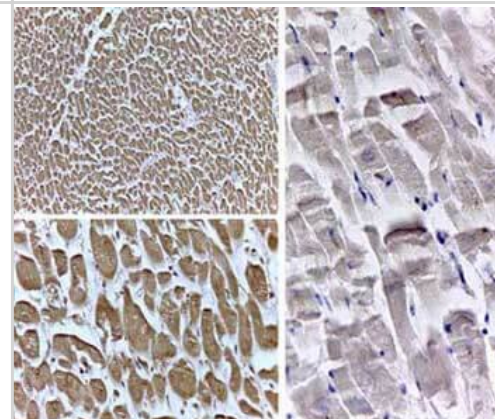
Immunohistochemistry: PPAR delta/NR1C2 Antibody - N-terminal [NB600-637] - Immunohistochemistry of PPAR delta/NR1C2/NR1C2 antibody. Antigen Retrieval: HIER pH 6.2. [Right] -Neg Ctrl: Normal rabbit IgG on heart striated muscle, pH6.2 (40X). [Left Top - low mag, Left Bottom - 20X] -Staining: Diffuse cytoplasmic positivity for PPAR delta/NR1C2 in human myocardiocytes at 1:500.



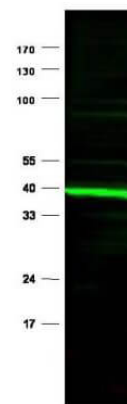
ELISA: PPAR delta/NR1C2 Antibody - N-terminal [NB600-637] - ELISA results of purified PPAR delta/NR1C2 antibody tested against BSA-conjugated peptide of immunizing peptide. Each well was coated in duplicate with 0.1ug of conjugate. The starting dilution of antibody was 5ug/ml and the X-axis represents 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 of Rabbit Anti-PPAR delta (N terminal specific). Antigen Retrieval: HIER pH 6.2. [Right] -Neg Ctrl: Normal rabbit IgG on heart striated muscle, pH6.2 (40X). [Left Top - low mag, Left Bottom - 20X] -Staining: Diffuse cytoplasmic positivity for PPAR delta in human myocardiocytes at 1:500.



Affinity Purified Rabbit Anti-PPAR delta is shown to detect a predominant band at ~ 40kDa corresponding to PPAR delta present in mouse heart whole cell lysates



Publications

Yang Q, Sun S, Liu W et al. Hypoxia training improves hepatic steatosis partly by downregulation of CB1 receptor in obese mice *Biochemical and Biophysical Research Communications* 2020-02-01 [PMID: 32122652] (WB, Mouse)

Falcone R, Florio TM, Di Giacomo E et al. PPARb/delta and gamma in a Rat Model of Parkinson's Disease: Possible Involvement in PD Symptoms. *J. Cell. Biochem.* 2014-12-19 [PMID: 25530507] (WB, Rat)





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Products Related to NB600-637

NBL1-14632	PPAR delta/NR1C2 Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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