# **Product Datasheet**

# PPAR alpha/NR1C1 Antibody - N-terminal - BSA Free NB600-636

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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## NB600-636

PPAR alpha/NR1C1 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. 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	This antibody is directed against mouse PPAR alpha/NR1C1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification 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.	
Host	Rabbit	
Gene ID	5465	
Gene Symbol	PPARA	
Species	Human, Mouse, Rat, Canine	
Reactivity Notes	A BLAST analysis was used to suggest reactivity with this protein from bovine, dog, golden hamster and boar sources based on 100% homology for the immunogen sequence. Cross reactivity with PPAR alpha/NR1C1 protein from chimpanzee and rhesus monkey may also occur as this sequence shows 88% homology (16/18 identities) with the protein from these sources. Cross reactivity with PPAR alpha/NR1C1 homologues from other sources has not been determined br/>Human reactivity reported in scientific literature (PMID: 31095524).	
Specificity/Sensitivity	No reactivity is expected against other subtypes of PPAR.	
Immunogen	PPAR alpha/NR1C1 Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a N- Terminal region near amino acids 1-25 of mouse PPAR alpha/NR1C1. (Uniprot: P23204)	
Product Application Details		
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Chromatin Immunoprecipitation (ChIP)	
Recommended Dilutions	Western Blot 1:500-1:2000, Flow Cytometry 1:10-1:1000, ELISA 1:75000- 1:125000, Immunohistochemistry 1:100-1:300, Immunocytochemistry/ Immunofluorescence 1-5ug/ml, Immunohistochemistry-Paraffin 1:200, Chromatin Immunoprecipitation (ChIP) 1:10-1:500	



Application Notes	This product has been tested in ELISA, Western Blot, Immunohistochemistry, and Immunofluorescence. Expect a single band approximately 52 kDa in size corresponding to PPAR alpha by western blot in the appropriate tissue or cell lysate. A 1:200 dilution is suggested for Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user.
	Use in chromatin immunoprecipitation reported in scientific literature (PMID

#### Images

Western Blot: PPAR alpha/NR1C1 Antibody - N-terminal [NB600-636] -Lane 1: NIH/3T3. Load: 10 ug per lane. Primary antibody: PPAR Alpha (N-terminal specific) antibody at 1:1,000 for overnight at 4C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Block: Blocking Buffer for Fluorescent Western Blotting at RT for 30 min. Predicted/Observed size: 50 kDa for PPAR Alpha.

26586378).



Immunocytochemistry/Immunofluorescence: PPAR alpha/NR1C1 Antibody - N-terminal [NB600-636] - Rabbit Anti-PPAR alpha (N-terminal specific) antibody using (A) Mouse NIH/3T3 or (B) Human HEK293 cells fixed with MeOH. (C) Secondary antibody only with NIH/3T3 cells. Anti-PPAR alpha antibody was used at 10 ug/mL, 1h at RT degrees . Secondary antibody: Anti-RABBIT IgG DyLight (R) 488 Conjugated Preadsorbed at 5 ug/ml for 1 h at RT. Staining: PPAR as green fluorescent signal with DAPI (blue) nuclear counterstain.



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Western Blot of Rabbit anti-PPAR Alpha (N-terminal specific) antibody. Marker: Opal Pre-stained ladder



Immunocytochemistry/ Immunofluorescence: PPAR alpha/NR1C1 Antibody - N-terminal [NB600-636] - Photomicrographs of cryosections of canine cervical (C8) dorsal root ganglion showing GPR55 (a-f) & PPARalpha (g-i) immunolabeling. (a-c) Arrows indicate the Neurotracelabeled nuclei of satellite glial cells (a) which showed bright GPR55 immunolabelling (b). White stars indicate unlabeled sensory neurons; open stars indicate empty spaces in which sensory neurons were no more evident. (d-f) White arrows indicate satellite glial cells which coexpressed bright GPR55- (d) & glial fibrillary acidic protein (GFAP) immunoreactivity; open arrows indicate SGCs which were GPR55 immunoreactive & GFAP negative (e). Stars indicate sensory neurons of different dimension, which expressed faint -to-moderate GPR55 immunoreactivity. (g-i) White arrows indicate the Neurotrace labeled nuclei of SGCs which showed PPARalpha immunoreactivity (h). Open arrow indicate autofluorescent pigment. Bar: a-i = 50 µm. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31608295), licensed under a CC-BY license. Not internally tested by Novus Biologicals.





#### **Publications**

Mia Sands, Xing Zhang, Arnon Gal, Mary Laws, Michael Spinella, Zeynep-Madak Erdogan, Joseph Irudayaraj Comparative hepatotoxicity of novel lithium bis(trifluoromethanesulfonyl)imide (LiTFSI, ie. HQ-115) and legacy Perfluorooctanoic acid (PFOA) in male mice: Insights into epigenetic mechanisms and pathway-specific responses. Environment international 2024-03-26 [PMID: 38461777]

Chiocchetti R, De Silva M, Aspidi F et al. Distribution of Cannabinoid Receptors in Keratinocytes of Healthy Dogs and Dogs With Atopic Dermatitis Frontiers in Veterinary Science 2022-07-08 [PMID: 35873682] (Immunocytochemistry/ Immunofluorescence)

Liang W, Huang L, Whelchel A et al. Peroxisome proliferator-activated receptor-? (PPAR?) regulates wound healing and mitochondrial metabolism in the cornea Proceedings of the National Academy of Sciences of the United States of America 2023-03-28 [PMID: 36943878] (IHC-P, WB, Mouse)

Zamith Cunha R, Zannoni A, Salamanca G et al. Expression of cannabinoid (CB1 and CB2) and cannabinoid-related receptors (TRPV1, GPR55, and PPAR?) in the synovial membrane of the horse metacarpophalangeal joint Frontiers in veterinary science 2023-03-03 [PMID: 36937015] (IHC-P, Horse)

Details:

1:80 IHC-P dilution

Kikuchi H, Chou CL, Yang CR et al. Signaling mechanisms in renal compensatory hypertrophy revealed by multiomics Nature communications 2023-06-16 [PMID: 37328470] (WB, Mouse)

Details:

Dilutions: 1:1000

Galiazzo G, Tagliavia C, Giancola F et al. Localisation of cannabinoid and cannabinoid-related receptors in the horse ileum J Equine Vet Sci 2021-08-21 [PMID: 34416995]

Huang L, Liang W, Zhou K et al. Therapeutic Effects of Fenofibrate Nano-Emulsion Eye Drops on Retinal Vascular Leakage and Neovascularization Biology 2021-12-15 [PMID: 34943243] (WB, Rat, Mouse)

Kain J, Wei X, Reddy Na Et Al. Pioneer factor Foxa2 enables ligand-dependent activation of type II nuclear receptors FXR and LXR alpha Molecular metabolism 2021-07-08 [PMID: 34246806] (Chemotaxis)

Baskaran P, Nazminia K, Frantz J et al. Mice lacking endogenous TRPV1 express reduced levels of thermogenic proteins and are susceptible to diet-induced obesity and metabolic dysfunction FEBS letters 2021-05-11 [PMID: 33977527]

Chiocchetti R, Rinnovati R, Tagliavia C et al. Localisation of cannabinoid and cannabinoid-related receptors in the equine dorsal root ganglia Equine Vet. J. 2020-06-11 [PMID: 32524649]

Moore MC, Smith MS, Swift LL et al. Bromocriptine Mesylate Improves Glucose Tolerance and Disposal in a High-Fat-Fed Canine Model Am. J. Physiol. Endocrinol. Metab. 2020-05-27 [PMID: 32459527] (Canine)

Stanzani A, Galiazzo G, Giancola F et al. Localization of cannabinoid and cannabinoid related receptors in the cat gastrointestinal tract Histochem. Cell Biol. 2020-02-24 [PMID: 32095931]

More publications at http://www.novusbio.com/NB600-636





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#### Products Related to NB600-636

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00005465-P01-10ug	Recombinant Human PPAR alpha/NR1C1 GST (N-Term) Protein

#### 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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