

Product Datasheet

PPAR gamma/NR1C3 Antibody - BSA Free NBP2-22106

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-22106

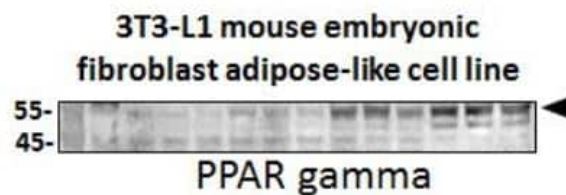
PPAR gamma/NR1C3 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	55 kDa
Product Description	
Host	Rabbit
Gene ID	5468
Gene Symbol	PPARG
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 27862692).
Immunogen	A synthetic peptide made to an internal portion of the human PPAR gamma protein (between residues 20-120) [UniProt P37231]
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 2 ug/ml, Immunohistochemistry 1:100, Immunoprecipitation reported in scientific literature (PMID 27862692), Immunohistochemistry-Paraffin 1:100
Application Notes	In Western blot, a band is detected at ~55 kDa. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

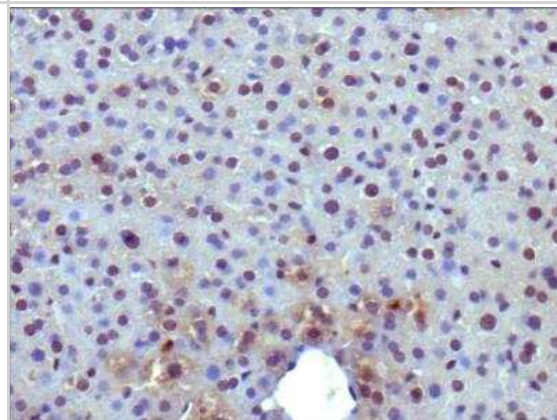


Images

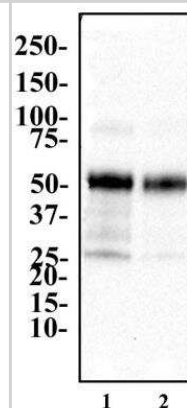
Western Blot: PPAR gamma/NR1C3 Antibody [NBP2-22106] - Total protein from 3T3-L1 mouse embryonic fibroblast adipose-like cell line, separated by 4-12% SDS-PAGE, transferred to nitrocellulose membrane and blocked in 5% non-fat milk for 1h at room temperature. The membrane was probed with anti-PPAR gamma 1:800 in non-fat milk. Lane 2-7 increasing protein concentration, undifferentiated adipocytes. Lane 8-13 increasing protein concentration, differentiated adipocytes. This image was submitted via customer review.



Immunohistochemistry-Paraffin: PPAR gamma Antibody [NBP2-22106] - IHC analysis of PPAR gamma in mouse liver.



Western Blot: PPAR gamma Antibody [NBP2-22106] - Western blot analysis of PPAR gamma in 1. human adipose and 2. human adrenal lysate.



Publications

Hyo Lim Lee, Jong Min Kim, Min Ji Go, Seung Gyum Joo, Tae Yoon Kim, Han Su Lee, Ju Hui Kim, Jin-Sung Son, Ho Jin Heo Fermented *Protaetia brevitarsis* Larvae Ameliorates Chronic Ethanol-Induced Hepatotoxicity in Mice via AMPK and TLR-4/TGF- β 1 Pathways *Journal of Microbiology and Biotechnology* 2024-03-28 [PMID: 38111317]

Sha Y, Wu J, Paul B et al. PPAR agonists attenuate lenalidomide's anti-myeloma activity in vitro and in vivo *Cancer letters* 2022-07-21 [PMID: 35872263]

Wu J, Wang X, Zhang M et al. RXR Agonists Enhance Lenalidomide Anti-Myeloma Activity and T Cell Functions while Retaining Glucose-Lowering Effect Cells 2023-08-03 [PMID: 37566072] (In vivo assay)

Moon S, Diltthey B, Guan S et al. Genetic deletion of skeletal muscle iPLA2 γ results in mitochondrial dysfunction, muscle atrophy and alterations in whole-body energy metabolism *iScience* 2023-06-01 [PMID: 37275531]

Wu J, Chu E, Paul B, Kang Y Mechanistic Studies and a Retrospective Cohort Study: The Interaction between PPAR Agonists and Immunomodulatory Agents in Multiple Myeloma Cancers 2022-10-27 [PMID: 36358696] (WB, Human)

Tavallae G, Lively S, Rockel JS et al. Contribution of microRNA-27b-3p to synovial fibrotic responses in knee osteoarthritis *Arthritis & rheumatology* (Hoboken, N.J.) 2022-07-06 [PMID: 35791923] (IF/IHC, Mouse)

Li L, Gan H, Jin H, et al. Astragaloside IV promotes microglia/macrophages M2 polarization and enhances neurogenesis and angiogenesis through PPAR γ pathway after cerebral ischemia/reperfusion injury in rats *International immunopharmacology* 2021-01-08 [PMID: 33429332]

Miller WR, Fox RG, Stutz SJ et al. PPARgamma agonism attenuates cocaine cue reactivity *Addict Biol.* 2016-11-11 [PMID: 27862692]

Details:

Citation using the HRP form of this antibody.

Miller, CN;Samuels, JS;Azhar, Y;Parmar, A;Shashidharamurthy, R;Rayalam, S; Guggulsterone Activates Adipocyte Beiging through Direct Effects on 3T3-L1 Adipocytes and Indirect Effects Mediated through RAW264.7 Macrophages *Medicines* (Basel) 2019-01-31 [PMID: 30709026] (WB, Mouse)

Miller WR. PPARgamma agonism attenuates cocaine seeking behavior via association with ERk MAPk. Thesis. (WB, Rat)

Fidoamore A, Cristiano L, Laezza C et al. Energy metabolism in glioblastoma stem cells: PPARa a metabolic adaptor to intratumoral microenvironment *Oncotarget* 2017-12-12 [PMID: 29312541] (WB, Human)

Procedures

Western Blot Protocol for PPAR gamma Antibody (NBP2-22106)

PPAR gamma/NR1C3 Antibody:

Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 25 ug of total protein per lane.
 2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
 3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
 4. Rinse the blot.
 5. Block the membrane using standard blocking buffer for at least 1 hour.
 6. Wash the membrane in wash buffer three times for 10 minutes each.
 7. Dilute anti-PPAR gamma primary antibody in blocking buffer and incubate 1 hour at room temperature.
 8. Wash the membrane in wash buffer three times for 10 minutes each.
 9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
 10. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).
 11. Apply the detection reagent of choice in accordance with the manufacturers instructions.
- Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

Immunohistochemistry-Paraffin Protocol for PPAR gamma Antibody (NBP2-22106)

PPAR gamma/NR1C3 Antibody:

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.





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Products Related to NBP2-22106

NB820-59171	Human Adrenal Whole Tissue Lysate (Adult Whole Normal)
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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