Product Datasheet

ROR alpha/NR1F1 Antibody - BSA Free NBP1-52813

Unit Size: 100 ul

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

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NBP1-52813

ROR alpha/NR1F1 Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS, 2% Sucrose
Target Molecular Weight	63 kDa
Product Description	
Description	The addition of 50% glycerol is optional for those storing this antibody at -20C and not aliquoting smaller units. However, please note that glycerol may interrupt some downstream antibody applications and should be added with caution.
Host	Rabbit
Gene ID	6095
Gene Symbol	RORA
Species	Human, Rat
Immunogen	Synthetic peptides corresponding to RORA (RAR-related orphan receptor A) The peptide sequence was selected from the N terminal of RORA (P35398-3). Peptide sequence CGDKSSGIHYGVITCEGCKGFFRRSQQSNATYSCPRQKNCLIDRTSRNRC. The peptide sequence for this immunogen was taken from within the described region.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1.0 ug/ml, Immunocytochemistry/ Immunofluorescence 1:10- 1:2000, Immunohistochemistry-Paraffin
Application Notes	Use in Immunofluorescence (PMID: 21480365), IHC-P reported in scientific literature (PMID:35803929).
Images	
Western Blot: ROR alpha/NR1F1 Antibody [NBP1-52813] - Western blot analysis of RORa expression in NP tissues isolated from three rats showed positive expression of the protein. Image collected and cropped by CiteAb from the following publication (https://www.oncotarget.com/lookup/doi/10_18632/oncotarget_8521)	

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Page 3 of 4 v.20.1 Updated 2/21/2025

Western Blot: ROR alpha/NR1F1 Antibody [NBP1-52813] - Expression analysis of BMAL1 & other related factors in NP cellsA. Immunohistochemical localization of BMAL1 in rat intervertebral disc. Sagittal sections of the mature rat intervertebral disc, immunostained with BMAL1 antibody, showed prominent nuclear expression in NP tissue. B. Western blot analysis of BMAL1 & RORα expression in NP tissues isolated from three rats showed positive expression for both the proteins. C. qRT-PCR analysis of BMAL-1 & RORa mRNA expression from NP & AF tissues from rat discs (n=3 animals/group) D. gRT-PCR analysis of BMAL1, RORa, ARNT, ARNT2, ARNTL2 & CLOCK expression in rat NP cells cultured under hypoxia (1% O2). None of the genes showed significant increase in hypoxia. E. Western blot analysis of BMAL1 & RORα in NP cells cultured under hypoxia. F., G. Densitometric analysis of multiple blots shown in (E) above. No significant differences were seen between normoxic & hypoxic levels of BMAL1 & ROR α . Data is represented as mean ± SE, n=3, p<0.05. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/27049729), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Yu W, Du J, Peng L, Zhang T ROR? overexpression reduced interleukin-33 expression and prevented mast cell degranulation and inflammation by inducing autophagy in allergic rhinitis Immunity, inflammation and disease 2023-10-01 [PMID: 37904695] (KD, IHC, WB, ICC/IF, Human, Mouse)

Guerra M, Medici V, Weatheritt R et al. Fetal exposure to valproic acid dysregulates the expression of autism-linked genes in the developing cerebellum Translational psychiatry 2023-04-05 [PMID: 37019889] (WB, Mouse)

Li J, Liu H, Wang X et al. Melatonin ameliorates Parkinson's disease via regulating microglia polarization in a ROR alpha-dependent pathway NPJ Parkinson's disease 2022-07-08 [PMID: 35803929] (IHC-P, Mouse)

Suyama K, Silagi ES, Choi H et al. Circadian factors BMAL1 and RORalpha control HIF-1alpha transcriptional activity in nucleus pulposus cells: implications in maintenance of intervertebral disc health. Oncotarget 2016-04-26 [PMID: 27049729] (WB)

Benderdour M, Fahmi H, Beaudet F et al. Nuclear receptor retinoid-related orphan receptor [alpha]1 modulates the metabolic activity of human osteoblasts. J Cell Biochem 112(8):2160-2169. 2011-08-01 [PMID: 21480365]





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Products Related to NBP1-52813

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00006095-Q01-10ug	Recombinant Human ROR alpha/NR1F1 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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