Product Datasheet

ROR gamma/RORC/NR1F3 Antibody - BSA Free
NBP2-24503

Unit Size: 0.1 mg

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

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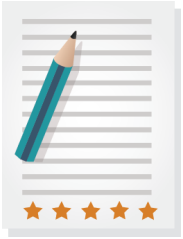
Updated 9/9/2025 v.20.1



NBP2-24503

ROR gamma/RORC/NR1F3 Antibody - BSA Free

Product Information

Unit Size	0.1 mg
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	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description

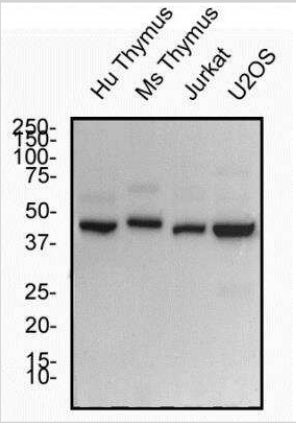
Description	Novus Biologicals Rabbit ROR gamma/RORC/NR1F3 Antibody - BSA Free (NBP2-24503) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-ROR gamma/RORC/NR1F3 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	6097
Gene Symbol	RORC
Species	Human, Mouse
Reactivity Notes	The amino acid sequence used as immunogen Porcine, Rat (81%).
Specificity/Sensitivity	100% homologous in human isoforms CRA_a).
Immunogen	A portion of amino acids 1-50 of human ROR gamma/RORC/NR1F3 was used as the immunogen.

Product Application Details

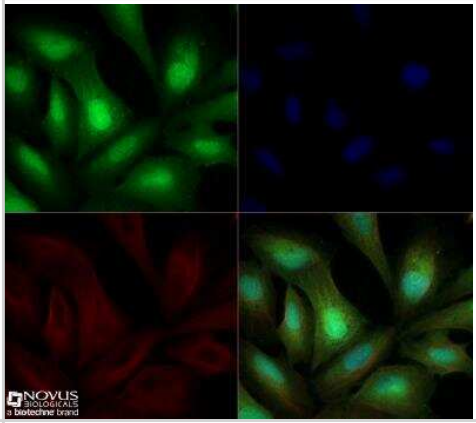
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 0.5-2 ug/ml, Immunohistochemistry 2.5-10 ug/ml, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation reported in scientific literature (PMID 31451788), Immunohistochemistry-Paraffin 10 ug/ml

Images

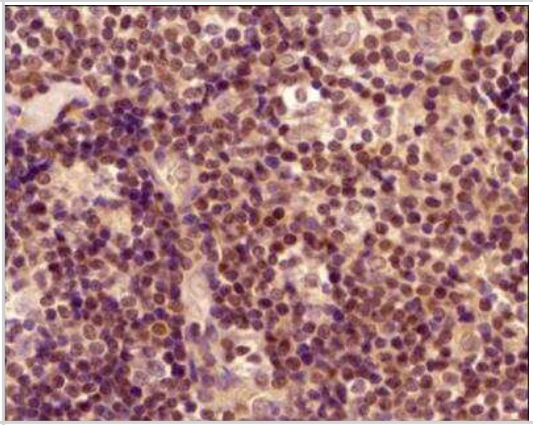
Western Blot: ROR gamma/RORC/NR1F3 Antibody [NBP2-24503] - Total protein from Human and mouse Thymus, Jurkat and U2OS cells was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-ROR Gamma in 5% non-fat milk in TBST and detected with an anti-rabbit HRP secondary antibody using chemiluminescence.



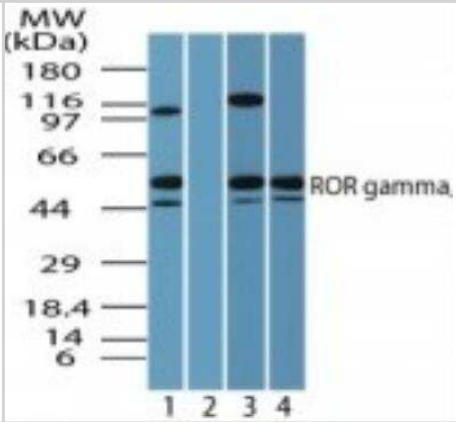
Immunocytochemistry/Immunofluorescence: ROR gamma/RORC/NR1F3 Antibody [NBP2-24503] - U-2 OS cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-ROR gamma overnight at 4C and detected with an anti-rabbit Dylight 488 (Green). Alpha tubulin (DM1A) NB100-690 was used as a co-stain and detected with an anti-mouse Dylight 550 (Red). Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



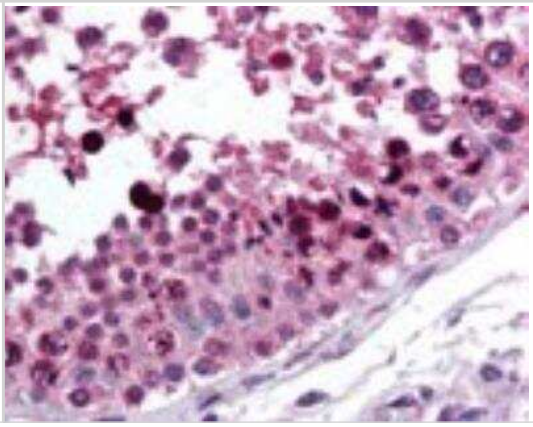
Immunohistochemistry-Paraffin: ROR gamma/RORC/NR1F3 Antibody [NBP2-24503] - Tissue section of human lymph node using anti- ROR gamma/RORC/NR1F3 antibody. The staining was developed with HRP labeled secondary antibody and DAB reagent, and nuclei of cells were counter-stained with hematoxylin. This antibody generated mainly a nuclear staining in a subset of cells and a weak to cytoplasmic staining was also observed in some cells.

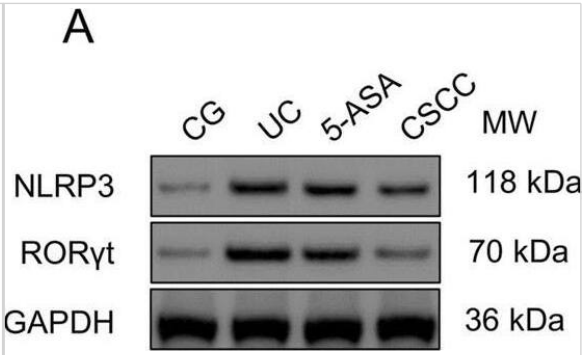
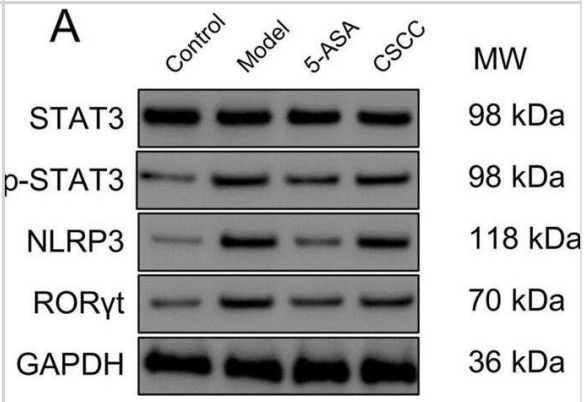


Western Blot: ROR gamma/RORC/NR1F3 Antibody [NBP2-24503] - Analysis of human ROR gamma/RORC/NR1F3 in Jurkat cell lysate in the 1) absence, 2) presence of immunizing peptide, 3) in 3T3, and 4) in RAW cell lysate using NBP2-24503.



Immunohistochemistry-Paraffin: ROR gamma/RORC/NR1F3 Antibody [NBP2-24503] - Analysis of human testis using NBP2-24503.



CSCC suppressed the NLRP3 Inflammasome Expression (A) Relative quantification of western blot in colonic tissue was performed for protein redistribution of (B) NLRP3 and (C) RORγt. RT-qPCR was performed to analyze the mRNA levels of (D) NLRP3 and (E) IL-1β. ELISA was performed to analyze the proinflammatory cytokines (F) IL-1β and (G) Caspase-1. (H) Levels of NLRP3 were tested by Immunofluorescence staining in colonic tissue (200 ×, scale bar = 100 μm). Data were presented as mean +/- SD (n = 6). ##p < 0.01, #p < 0.05 vs UC group. **p < 0.01, *p < 0.05 vs control group. ns: no statistical significance. Image collected and cropped by CiteAb from the following open publication (https://www.frontiersin.org/articles/10.3389/fphar.2024.1423012/full), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Effects of CSCC on STAT3/NLRP3 in RAW264.7 cells (A) Relative quantification of western blot in RAW264.7 cells was performed for protein redistribution of (B) NLRP3, (C) p-STAT3 and (D) RORγt. ELISA was performed to analyze the proinflammatory cytokines (E) TNF-α and (F) IL-17A. (G) Levels of NLRP3 were tested by Immunofluorescence staining in colonic tissue (200 ×, scale bar = 100 μm). Data were presented as mean +/- SD (n = 6). ##p < 0.01, #p < 0.05 vs UC group. **p < 0.01, *p < 0.05 vs control group. ns: no statistical significance. Image collected and cropped by CiteAb from the following open publication (https://www.frontiersin.org/articles/10.3389/fphar.2024.1423012/full), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

Taoming Liu, Yuqi Chu, Sheng Li, Hong Fang, Jianjun Qiao Clinical and immunological phenotype switch to prurigo nodularis in a patient receiving ixekizumab for treating psoriasis: a case report. International journal of dermatology 2023-06-30 [PMID: 37013253]

Zhao B, Yoganathan K, Li L et al. Notch and the pre-TCR coordinate thymocyte proliferation by induction of the SCF subunits Fbxl1 and Fbxl12 Nat. Immunol. 2019-08-26 [PMID: 31451788] (IP, WB)

Keijsers RR, Hendriks AG, van Erp PE et al. In Vivo Induction of Cutaneous Inflammation Results in the Accumulation of Extracellular Trap-Forming Neutrophils Expressing ROR gamma t and IL-17. J Invest Dermatol 2013-12-06 [PMID: 24317395] (ICC/IF, IF/IHC, Human)

Procedures

Western Blot Protocol for ROR gamma/RORC/NR1F3 Antibody (NBP2-24503)
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 10-25 ug of total protein per lane.
2. Transfer proteins to PVDF membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain the membrane with Ponceau S (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot TBS -0.05% Tween 20 (TBST).
5. Block the membrane in 5% Non-fat milk in TBST (blocking buffer) for at least 1 hour.
6. Wash the membrane in TBST three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate overnight at 4C with gentle rocking.
8. Wash the membrane in TBST three times for 10 minutes each.
9. Incubate the membrane in diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) for 1 hour at room temperature.
10. Wash the blot in TBST 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.

Immunocytochemistry/Immunofluorescence Protocol for ROR gamma/RORC/NR1F3 Antibody (NBP2-24503)
Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and wash the cells briefly in PBS. Add 10% formalin to the dish and fix at room temperature for 10 minutes.
2. Remove the formalin and wash the cells in PBS.
3. Permeablize the cells with 0.1% Triton X100 or other suitable detergent for 10 min.
4. Remove the permeablization buffer and wash three times for 10 minutes each in PBS. Be sure to not let the specimen dry out.
5. To block nonspecific antibody binding, incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
6. Add primary antibody at appropriate dilution and incubate overnight at 4C.
7. Remove primary antibody and replace with PBS. Wash three times for 10 minutes each.
8. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
9. Remove secondary antibody and replace with PBS. Wash three times for 10 minutes each.
10. Counter stain DNA with DAPi if required.

Immunohistochemistry-Paraffin Protocol for ROR gamma/RORC/NR1F3 Antibody (NBP2-24503)
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 (keep slides in the sodium citrate buffer all the time).

Staining:
1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in PBS for 5 minutes.
3. Block each section with 100-400 ul blocking solution (1% BSA in PBS) 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 HRP polymer conjugated secondary antibody. Incubate 30 minutes at room temperature.
7. Wash sections three times in wash buffer for 5 minutes each.
8. Add 100-400 ul DAB substrate to each section and monitor staining closely.
9. As soon as the sections develop, immerse slides in deionized water.
10. Counterstain sections in hematoxylin.
11. Wash sections in deionized water two times for 5 minutes each.
12. Dehydrate sections.
13. Mount coverslips.

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Products Related to NBP2-24503

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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