

# Product Datasheet

## FXR/NR1H4 Antibody - BSA Free NB400-153

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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**NB400-153****FXR/NR1H4 Antibody - BSA Free**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris-Glycine, 0.15M NaCl
<b>Target Molecular Weight</b>	66 kDa

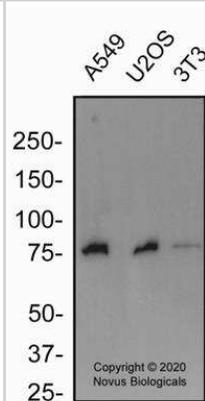
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit FXR/NR1H4 Antibody - BSA Free (NB400-153) is a polyclonal antibody validated for use in WB and ICC/IF. Anti-FXR/NR1H4 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	9971
<b>Gene Symbol</b>	NR1H4
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 29491146).
<b>Immunogen</b>	A synthetic peptide made to the C-terminus of the human FXR protein. [UniProt# Q96RI1]

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence
<b>Recommended Dilutions</b>	Western Blot 1 - 4 ug/mL, Immunocytochemistry/ Immunofluorescence 1:100
<b>Application Notes</b>	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.

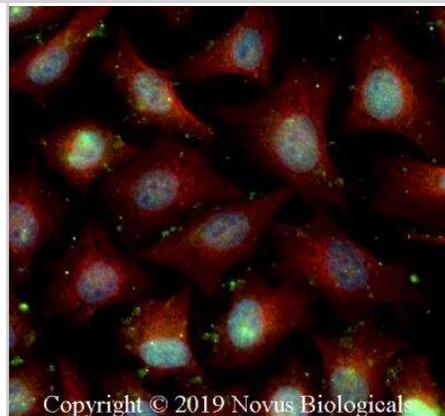


## Images

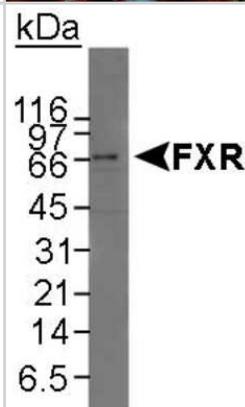
**Western Blot: FXR/NR1H4 Antibody [NB400-153]** - Total protein from human A549, U2OS cell and mouse 3T3 cells was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-FXR (NB400-153) in block buffer and detected with an anti-rabbit HRP secondary antibody using NovaLume chemiluminescence detection reagent (NPB2-61915).



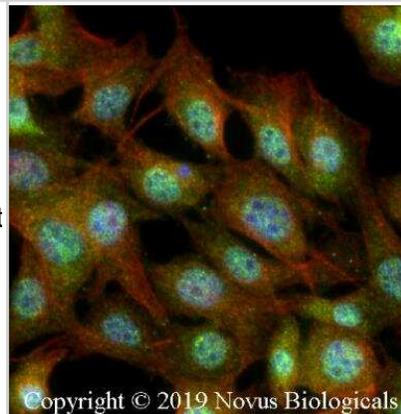
**Immunocytochemistry/Immunofluorescence: FXR/NR1H4 Antibody [NB400-153]** - A549 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton-X100. The cells were incubated with anti-FXR/NR1H4 at 2 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



**Western Blot: FXR Antibody [NB400-153]** - Detection of FXR in HeLa nuclear extract using NB400-153. ECL 30 minute detection.



**Immunocytochemistry/Immunofluorescence: FXR/NR1H4 Antibody [NB400-153]** - NIH3T3 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton-X100. The cells were incubated with anti-FXR/NR1H4 at 2 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



## Publications

Bai Y, Zhang J, Li J, Liao M et Al. Silibinin, a commonly used therapeutic agent for non-alcohol fatty liver disease, functions through upregulating intestinal expression of fibroblast growth factor 15/19 Br J Pharmacol 2024-06-05 [PMID: 38839561]

Malivindi R, Santoro M, De Rose D et al. Activated-Farnesoid X Receptor (FXR) expressed in human sperm alters its fertilizing ability Reproduction 2018-06-19 [PMID: 29921626] (Human)

Gallo-Ebert C, Francisco J, Liu HY et al. Mice lacking ARV1 have reduced signs of metabolic syndrome and non-alcoholic fatty liver disease. J. Biol. Chem. 2018-02-28 [PMID: 29491146] (WB, Mouse)

Xing Y, Saner-Amigh K, Nakamura Y et al. The farnesoid X receptor regulates transcription of 3beta-hydroxysteroid dehydrogenase type 2 in human adrenal cells. Mol Cell Endocrinol 2009-02-27 [PMID: 19059462] (Human)



## Procedures

### Western Blot Protocol for FXR/NR1H4 Antibody (NB400-153)

FXR/NR1H4 Antibody:

Western Blot Protocol

1. Perform SDS-PAGE (4-12%) on samples to be analyzed, loading 20 ug of total transfected protein per lane.
  2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
  3. Stain the blot using ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
  4. Rinse the blot in TBS for approximately 5 minutes.
  5. Block the membrane using 5% non-fat dry milk in TBS + 0.5% BSA for 1 hour.
  6. Dilute the rabbit anti-FXR primary antibody (NB 400-153) in blocking buffer and incubate 2 hours at room temperature.
  7. Wash the membrane in water for 5 minutes and apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
  8. Wash the blot in TBS containing 0.05-0.1% Tween-20 for 10-20 minutes.
  9. Wash the blot in type I water for an additional 10-20 minutes (this step can be repeated as required to reduce background).
  10. Apply the detection reagent of choice in accordance with the manufacturers instructions (Amersham's ECL is the standard reagent used at Novus Biologicals).
- Note: Tween-20 can be added to the blocking buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

### Immunocytochemistry/ Immunofluorescence Protocol for FXR/NR1H4 Antibody (NB400-153)

FXR/NR1H4 Antibody:

Immunocytochemistry Protocol

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

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

\*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.



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### **Products Related to NB400-153**

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NB800-PC9	HeLa Nuclear Cell Lysate
NB400-153PEP	FXR/NR1H4 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **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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