

Product Datasheet

Wnt-5a Antibody - BSA Free NBP2-24752

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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NBP2-24752

Wnt-5a 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	0.05% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS

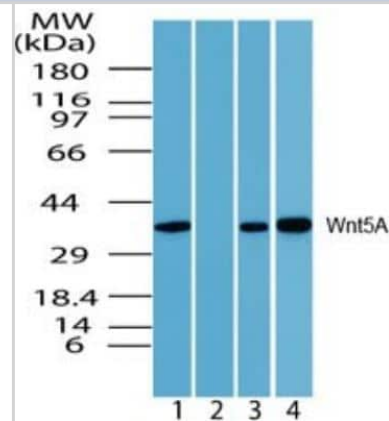
Product Description	
Description	Novus Biologicals Rabbit Wnt-5a Antibody - BSA Free (NBP2-24752) is a polyclonal antibody validated for use in IHC and WB. Anti-Wnt-5a Antibody: Cited in 13 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7474
Gene Symbol	WNT5A
Species	Human, Mouse, Rat, Bovine, Monkey
Reactivity Notes	The amino acid sequence used as immunogen is 90% homologous in newt (<i>Pleurodeles waltl</i>), and 88% in <i>Xenopus</i> and axolotl (<i>Ambystoma mexicanum</i>). Reactivity to <i>Petarus breviceps</i> reported in verified customer review.
Immunogen	A synthetic peptide corresponding to amino acids 190-230 of human Wnt-5a was used as the immunogen for this antibody, GenBank no NP_003383.2.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 0.5-2 ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin 5-10 ug/ml, Immunohistochemistry-Frozen reported by customer review

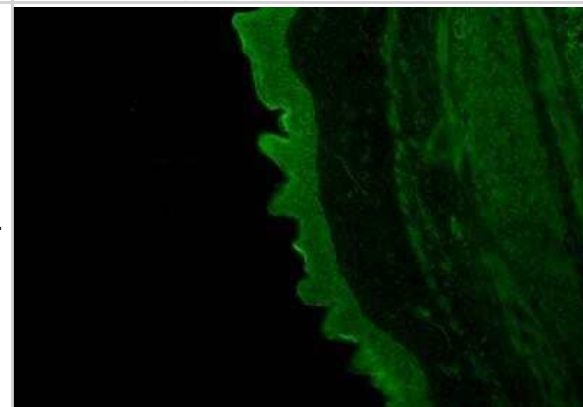


Images

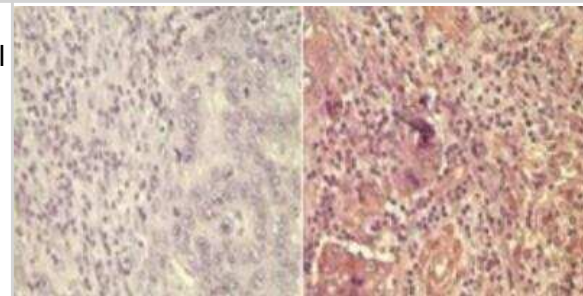
Western Blot: Wnt-5a Antibody [NBP2-24752] - Analysis of Wnt-5a in human heart lysate in the 1) absence, 2) presence of immunizing peptide, 3) mouse and 4) rat heart



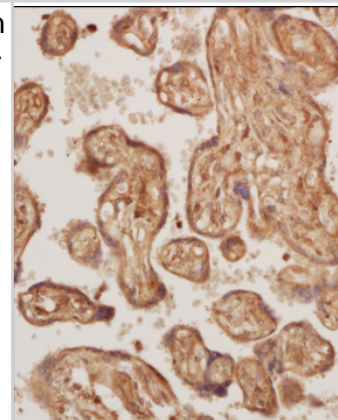
Immunohistochemistry-Frozen: Wnt-5a Antibody [NBP2-24752] - P. breviceps epithelial expression of Wnt5a at 1:100 dilution. Tissue samples Cryo-section fixed (12um slices) in OCT, washed for 10min in PBT (PBS + 0.1% tween), blocked for 1hr in 3%BSA/PBS, and then incubated with the antibody overnight at 4C. The next day washed 3x for 10min in PBT and incubated for one hr in Alexa 488 (1:500), washed 3x10min in PBS, and coverslipped. Image from verified customer review.



Immunohistochemistry-Paraffin: Wnt-5a Antibody [NBP2-24752] - Analysis of Wnt-5a in FFPE human breast tumor using an isotype control (left) and Wnt-5a antibody (right)



Analysis of a FFPE tissue section of human placenta using 1:200 dilution of Wnt-5a antibody. The staining was developed using HRP labeled anti-rabbit secondary antibody and DAB reagent, and nuclei of cells were counter-stained with hematoxylin.



Publications

Cameron S Anti-Cancer and Stress Response Pathway Effects of Nanosilver and Sodium Ascorbate Carleton University 2022-07-11 (WB, Human)

Sheng J Cellular Effects Nanosilver on Cancer and Non-cancer Cells: Potential Environmental and Human Health Impacts Thesis

Qian W, Yan Q, Jiang X Et al. Study of lncRNA TUG1/miR-320 in EPC Transplantation to Improve Lower Limb Ischemia and Promote Angiogenesis in Mice Research Square 2021-11-01 (WB, Mouse)

Illendula A, Fultang N, Peethambaran B Retinoic acid induces differentiation in neuroblastoma via ROR1 by modulating retinoic acid response elements Oncol. Rep. 2020-09-01 [PMID: 32705280] (WB, Human)

Kayalar O, Oztay F, Ongen HG Gastrin-releasing peptide induces fibrotic response in MRC5s and proliferation in A549s Cell Commun. Signal 2020-06-18 [PMID: 32552754] (WB, Human)

Zhang H, Yang X, Hu F et al. Expression Level of Wnt5a Was Related to the Therapeutic Effects of First-Generation EGFR-TKIs OTT 2020-06-01 [PMID: 32606756] (IF/IHC, Human)

Fultang N, Illendula A, Chen B et al. Strictinin, a novel ROR1-inhibitor, represses triple negative breast cancer survival and migration via modulation of PI3K/AKT/GSK3 beta activity PLoS ONE 2019-05-31 [PMID: 31150511] (WB, Human)

Lin CW Jan MS Kuo JH. Exploring MicroRNA Expression Profiles Related to the mTOR Signaling Pathway in Mouse Embryonic Fibroblast Cells Treated with Polyethylenimine. Mol Pharm. [PMID: 26158199]

Jung CK, Jung SH, Yim SH et al. Predictive microRNAs for lymph node metastasis in endoscopically resectable submucosal colorectal cancer. Oncotarget. 2016-05-31 [PMID: 27096956] (IF/IHC, Human)

Lim S, Becker A, Zimmer A et al. SNAI1-mediated epithelial-mesenchymal transition confers chemoresistance and cellular plasticity by regulating genes involved in cell death and stem cell maintenance. PLoS One. 2013-06-17 [PMID: 23799116]

Details:

Wnt-5A (IMG-6075). WB: Fig 5H. MCF10A cells stably transfected with SNAI1. Note: The specificity of the Wnt-5A was validated in Wnt5a treated MCF10A-SNAI1 by WB in Fig 5H.

Shi Y, Shu J, Gelman BB et al. Wnt signaling in the pathogenesis of human HIV-associated pain syndromes. J Neuroimmune Pharmacol. 2013-09-01 [PMID: 23737037]

Details:

Wnt-5a (IMG-6075). WB: Fig 1, human postmortem lumbar spinal cord dorsal horn (SDH). Wnt5a was detected between the 35 and 55 kDa markers primarily as a single band or as two bands. IHC (P): Fig 4, SDH. Wnt5a signals formed bright spots in the SDS and wer

Shi Y, Fu Y, Tong W et al. Uniaxial mechanical tension promoted osteogenic differentiation of rat tendon-derived stem cells (rTDSCs) via the Wnt5a-RhoA pathway. J Cell Biochem. 2012-10-01 [PMID: 22615126] (WB)

Details:

Wnt-5a (IMG-6075). WB: Figs 1A, 1C. Rat tendon-derived stem cells (rTDSCs). Wnt5a was detected at ~41kDa. Note: The specificity of the Wnt-5A was validated in Wnt5a-siRNA transfected rTDSCs by WB in Figs 1A, 1C.

More publications at <http://www.novusbio.com/NBP2-24752>

Procedures

Western Blot Protocol for Wnt-5a Antibody (NBP2-24752)

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 manufacturer's instructions.

Immunohistochemistry-Paraffin Protocol for Wnt-5a Antibody (NBP2-24752)

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 at all times).

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 NBP2-24752

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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