

Product Datasheet

R-Spondin 1 Antibody - BSA Free NBP1-77354

Unit Size: 0.1 mg

Store at 4C.

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NBP1-77354

R-Spondin 1 Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	29 kDa

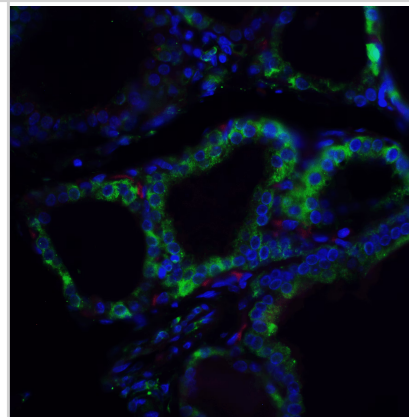
Product Description	
Description	Novus Biologicals Rabbit R-Spondin 1 Antibody - BSA Free (NBP1-77354) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-R-Spondin 1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	284654
Gene Symbol	RSPO1
Species	Human, Mouse
Specificity/Sensitivity	At least three isoforms of R-Spondin 1 are known to exist; this antibody will detect the largest and smallest isoforms. R-Spondin 1 antibody will not cross-react with other RSPO family members. Human R-Spondin 1 has 3 isoforms, including isoform 1 (263aa, 29kD), isoform 2 (236aa, 26kD), and isoform 3 (200aa, 22kD). Mouse R-Spondin 1 had 1 isoform (265aa, 29kD) and rat R-Spondin 1 had 1 isoform (262aa, 29kD). NBP1-77354 can detect human, mouse and rat.
Immunogen	Antibody was raised against a peptide corresponding to 16 amino acids near the amino terminus of human R-Spondin 1. The immunogen is located within the first 50 amino acids of R-Spondin 1. Amino Acid Sequence: RGIKGRQRRISAEGS

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.5-2 ug/mL, ELISA 1:100-1:2000, Immunohistochemistry 2.5-5 ug/mL, Immunocytochemistry/ Immunofluorescence 5 ug/ml, Immunohistochemistry-Paraffin 5 ug/ml

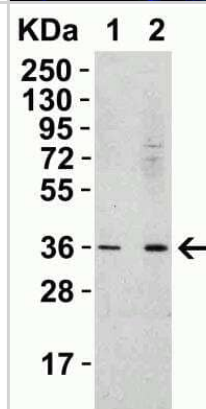


Images

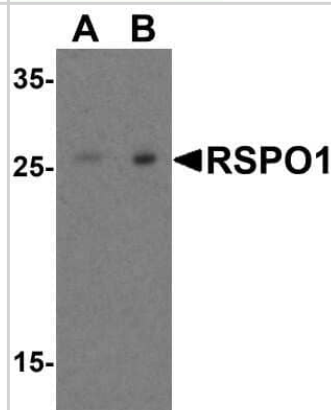
Immunocytochemistry/ Immunofluorescence: R-Spondin 1 Antibody - BSA Free [NBP1-77354] - Validation of R-Spondin 1 in Human Spleen. Immunofluorescent analysis of 4% paraformaldehyde-fixed human spleen labeling R-Spondin 1 with at 5 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) with Phylloidin staining (red) and DAPI staining (blue).



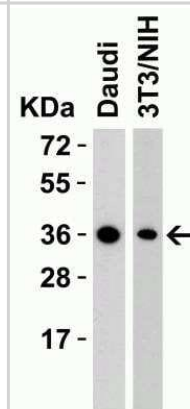
Western Blot: R-Spondin 1 Antibody [NBP1-77354] - Loading: 15 ug of spleen lysates per lane. Antibodies: RSP01, 5171 (Lane 1: 0.5 ug/mL, Lane 2: 1 ug/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



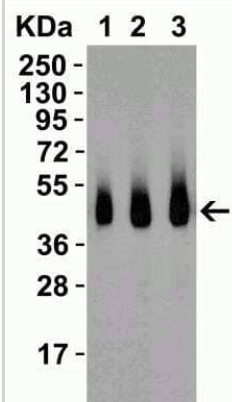
Western Blot: R-Spondin 1 Antibody [NBP1-77354] - Analysis in human heart tissue lysate with antibody at (A) 1 and (B) 2 ug/mL.



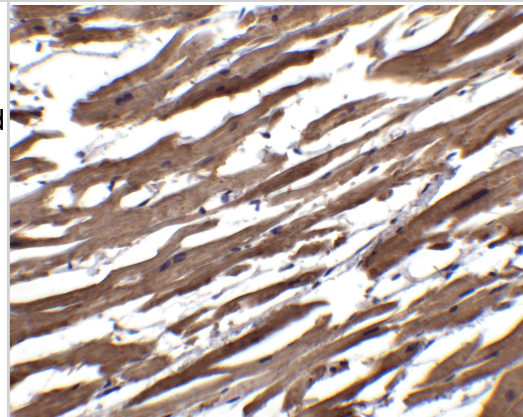
Western Blot: R-Spondin 1 Antibody [NBP1-77354] - Loading: 30 ng of lysates per lane. Lane 1: 0.5ug/ml, Lane 2: 1ug/ml



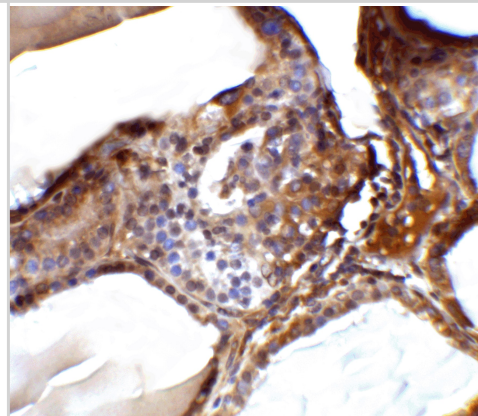
Western Blot: R-Spondin 1 Antibody [NBP1-77354] - Loading: 30 ng of human RSPO1 recombinant protein per lane. Antibodies: RSPO1, 5171 (Lane 1: 0.5 ug/mL, Lane 2: 1 ug/mL, Lane 3: 2 ug/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



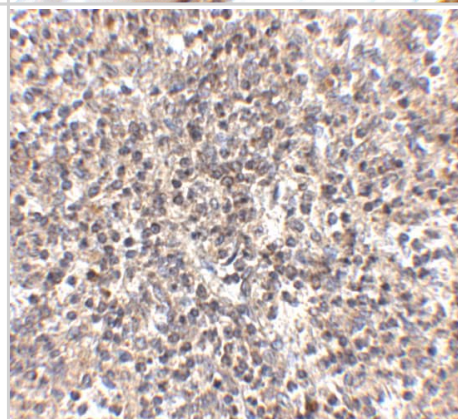
Immunohistochemistry: R-Spondin 1 Antibody - BSA Free [NBP1-77354] - Validation of R-Spondin 1 in Human Heart. Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-R-Spondin 1 antibody at 2.5 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunohistochemistry: R-Spondin 1 Antibody - BSA Free [NBP1-77354] - Validation of R-Spondin 1 in Human Spleen Tissue. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-R-Spondin 1 antibody at 5 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunohistochemistry: R-Spondin 1 Antibody - BSA Free [NBP1-77354] - Validation of R-Spondin 1 in Human Spleen Tissue. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-R-Spondin 1 antibody at 2.5 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Publications

Shen Y, Wang J, Dai Y et al. RSPO3 Promotes Proliferation and Self-Renewal of Limbal Epithelial Stem Cells Through a WNT/ β -Catenin-Independent Signaling Pathway Investigative Ophthalmology & Visual Science 2025-01-06 [PMID: 39760688]

MY Turco, L Gardner, RG Kay, RS Hamilton, M Prater, MS Hollinshea, A McWhinnie, L Esposito, R Fernando, H Skelton, F Reimann, FM Gribble, A Sharkey, SGE Marsh, S O'Rahilly, M Hemberger, GJ Burton, A Moffett Trophoblast organoids as a model for maternal-fetal interactions during human placentation Nature, 2018-11-28;0(0):. 2018-11-28 [PMID: 30487605]

Takahashi Y, Sato S, Kurashima Y et al. A Refined Culture System for Human Induced Pluripotent Stem Cell-Derived Intestinal Epithelial Organoids. Stem Cell Reports 2017-12-01 [PMID: 29233552] (Human)





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Products Related to NBP1-77354

NBP1-77354PEP	R-Spondin 1 Antibody Blocking Peptide
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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