

Product Datasheet

SMURF2 Antibody - BSA Free

NBP2-57554

Unit Size: 100 ul

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

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NBP2-57554

SMURF2 Antibody - BSA Free

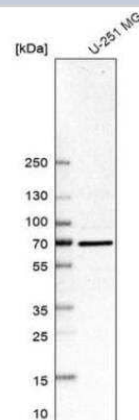
Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Description	Novus Biologicals Rabbit SMURF2 Antibody - BSA Free (NBP2-57554) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-SMURF2 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	64750
Gene Symbol	SMURF2
Species	Human, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 31076633).
Immunogen	This antibody was developed against a recombinant protein corresponding to the following amino acid sequence: LSCFVDENTPISGTNGATCGQSSDPRLAERRVRSQRHRNYMSRTHLHTPPD

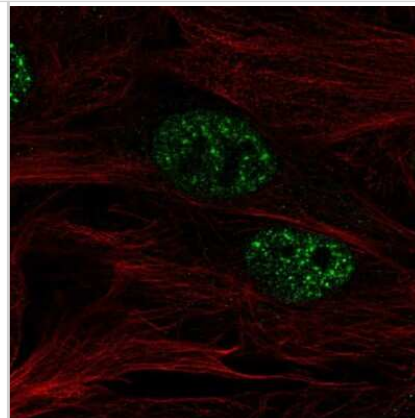
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

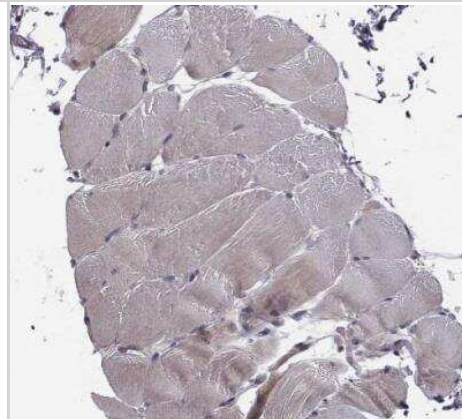
Western Blot: SMURF2 Antibody [NBP2-57554] - Analysis in human cell line U-251 MG.



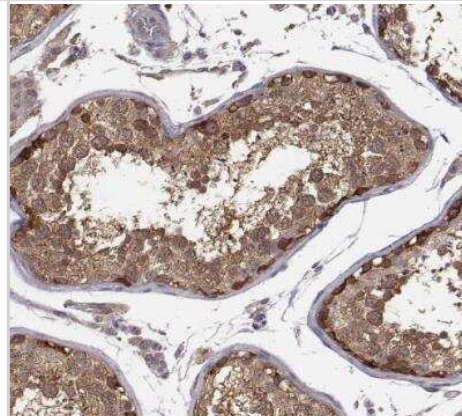
Immunocytochemistry/Immunofluorescence: SMURF2 Antibody [NBP2-57554] - Staining of human cell line BJ shows localization to nuclear speckles. Antibody staining is shown in green.



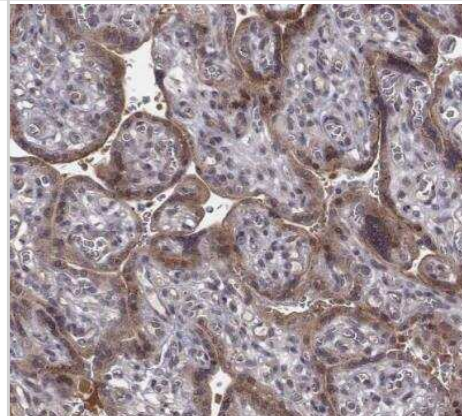
Immunohistochemistry-Paraffin: SMURF2 Antibody [NBP2-57554] - Staining of human skeletal muscle shows no positivity in myocytes as expected.



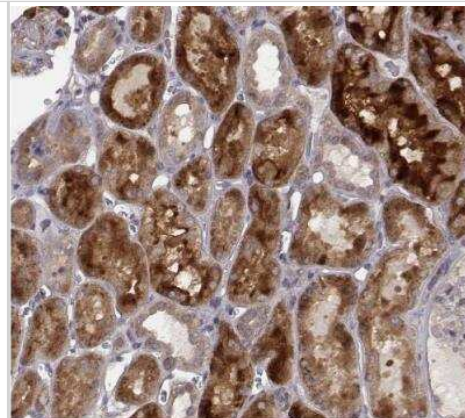
Immunohistochemistry-Paraffin: SMURF2 Antibody [NBP2-57554] - Staining of human testis shows strong cytoplasmic positivity in cells in seminiferous ducts.



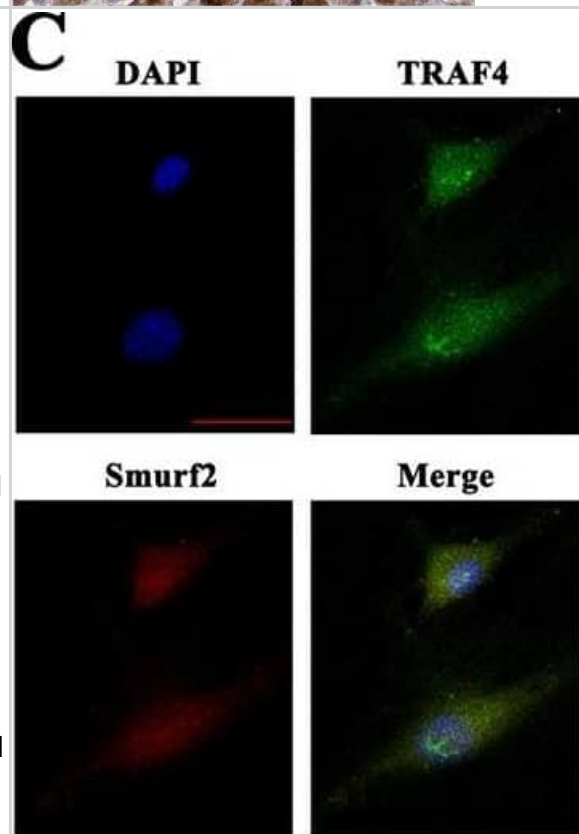
Immunohistochemistry-Paraffin: SMURF2 Antibody [NBP2-57554] - Staining of human placenta shows moderate cytoplasmic positivity in trophoblastic cells.



Immunohistochemistry-Paraffin: SMURF2 Antibody [NBP2-57554] - Staining of human kidney shows strong cytoplasmic positivity in cells in tubules.



TRAF4 diminished the expression of Smurf2 to modulate the osteogenesis process of MSCs. a Coomassie blue staining of the coimmunoprecipitated mixture separated by SDS-PAGE. b Coimmunoprecipitated mixtures were separated by SDS-PAGE and evaluated by western blot. Endogenous TRAF4 and Smurf2 in MSCs interacted with each other. c Immunofluorescence assays showed the colocalization of TRAF4 and Smurf2 in MSCs (green TRAF4, red Smurf2, blue DAPI). d The Smad1 and Runx2 protein levels were decreased in the Sh-TRAF4 group and increased in the Sh-Smurf2 group compared with those in the NC1 group, while compared with Sh-TRAF4, Sh-TRAF4/Sh-Smurf2 rescued the expression of Smad1 and Runx2. The Smad1 and Runx2 protein levels increased in the OE-TRAF4 group and decreased in the OE-Smurf2 group compared with the NC2 group, while the expression levels of Smad1 and Runx2 in the OE-TRAF4/OE-Smurf2 group was decreased compared with those observed in the OE-TRAF4 group. e The simultaneous knockdown of TRAF4 and Smurf2 increased the ARS and ALP staining compared with that in the Sh-TRAF4 group (scale bar = 250 μ m, black arrows), while the simultaneous overexpression of TRAF4 and Smurf2 decreased the ARS and ALP staining to the level observed in the NC2 group compared with OE-TRAF4 group (scale bar = 250 μ m, black arrows). Data in (d) and (e) are presented as the means \pm SD. * p < 0.05 (n = 3 independent experiments with three different MSC lines) Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/31076633>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Gordeeva O, Gordeev A, Khaydukov S TRAF4 positively regulates the osteogenic differentiation of mesenchymal stem cells by acting as an E3 ubiquitin ligase to degrade Smurf2 Cell Death Differ. 2019-05-10 [PMID: 31076633] (IHC-P, Human, Rat)



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-57554

NBP2-57554PEP	SMURF2 Recombinant Protein Antigen
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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