Product Datasheet

SOX9 Antibody
NBP1-85551

Unit Size: 0.1 ml

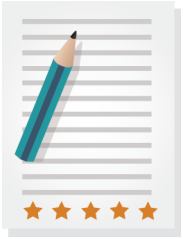
Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

www.novusbio.com technical@novusbio.com

Reviews: 1 Publications: 21

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-85551

Updated 12/20/2023 v.20.1



NBP1-85551

SOX9 Antibody

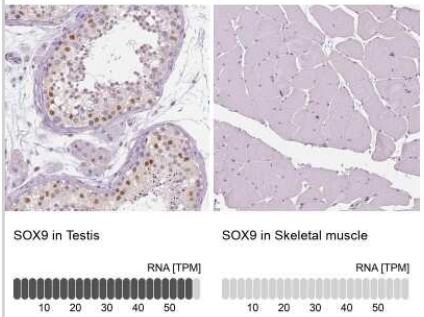
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	6662
Gene Symbol	SOX9
Species	Human, Mouse, Rat, Porcine, Canine
Reactivity Notes	Use in Rat reported in scientific literature (PMID:33645550). Porcine reactivity reported in scientific Iliterature (PMID: 26430891). Use in Canine reported in scientific literature (PMID:26428883).
Marker	Sertoli Cell Marker
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: SQRTHIKTEQLSPSHYSEQQQHSPQQIAYSPFNLPHYSPSYPPITRSQYDYTDH QNSSSYYSHAAGQGTGLYSTFTYMNPAQRPMYTPIADTSGVPSIPQTHSPQH WEQPVYTQLTR

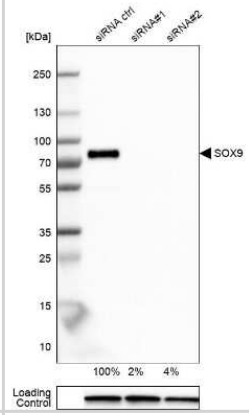
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Gel Supershift Assay, Knockdown Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000, Immunohistochemistry-Frozen Reported in scientific literature (PMID:32103177)., Gel Supershift Assay Reported in scientific literature (PMID: 26430891)., Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation/Permeabilization: PFA/Triton X-100br/>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

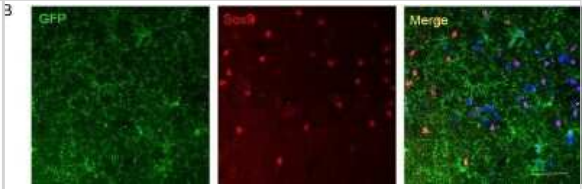
Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining in human testis and skeletal muscle tissues . Corresponding SOX9 RNA-seq data are presented for the same tissues.



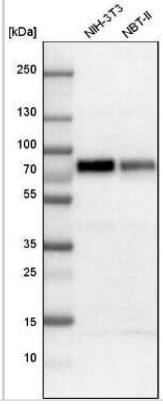
Knockdown Validated: SOX9 Antibody [NBP1-85551] - Analysis in U-251MG cells transfected with control siRNA, target specific siRNA probe #1 and #2, using anti-SOX9 antibody. Remaining relative intensity is presented. Loading control: anti-GAPDH.



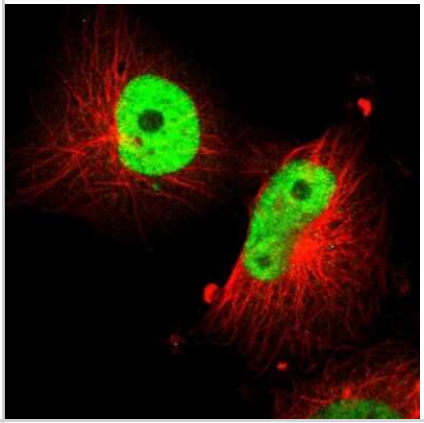
Immunocytochemistry/Immunofluorescence: SOX9 Antibody [NBP1-85551] - Further analysis of P2X7-EGFP expressing cells in the dentate gyrus and CA1 region. Co-staining of EGFP with the alternative astrocyte marker SOX9 in the CA1 region. Scale bar: 50 um. DAPI staining in blue (n = at least three animals in all experiments). Image collected and cropped by CiteAb from the following publication (https://elifesciences.org/articles/36217), licensed under a CC-BY license.



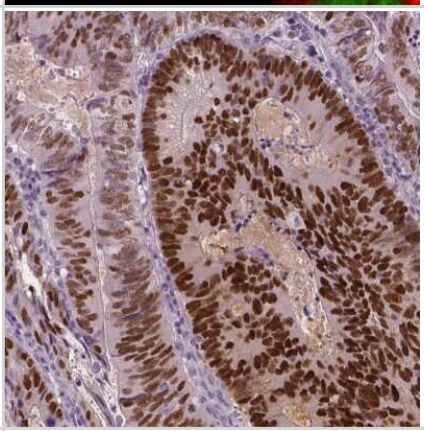
Western Blot: SOX9 Antibody [NBP1-85551] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



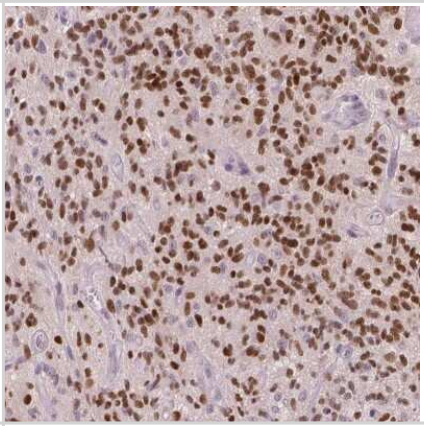
Immunocytochemistry/Immunofluorescence: SOX9 Antibody [NBP1-85551] - Staining of human cell line U-251 MG shows localization to nucleoplasm. Antibody staining is shown in green.



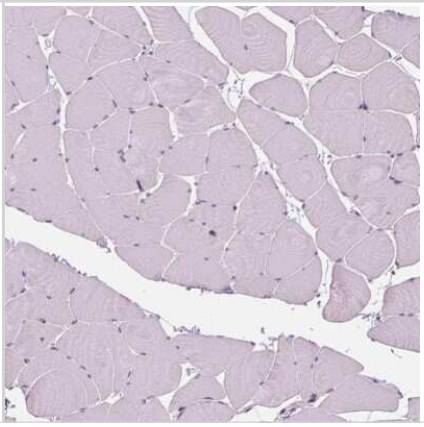
Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining of human colorectal cancer shows moderate to strong nuclear positivity in tumor cells.

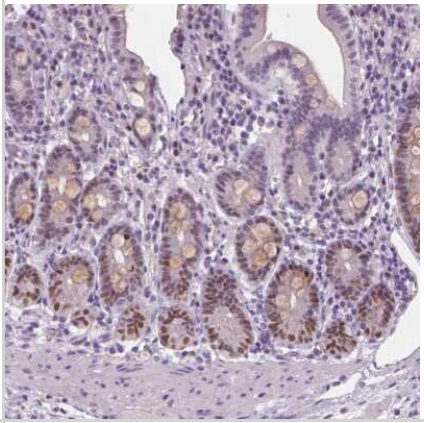
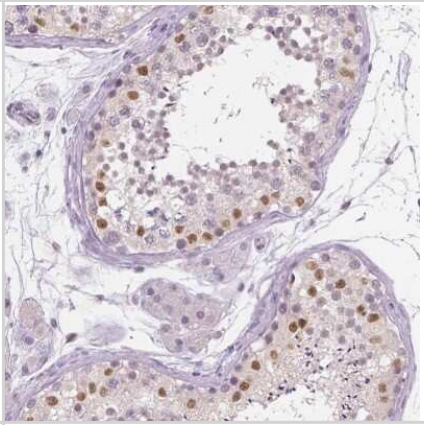
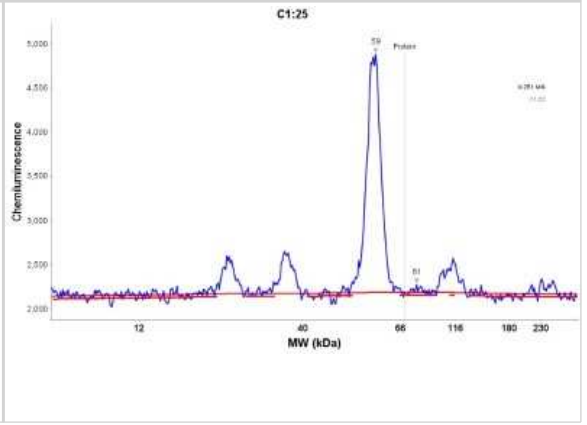


Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining of human glioma shows moderate to strong nuclear positivity in tumor cells.

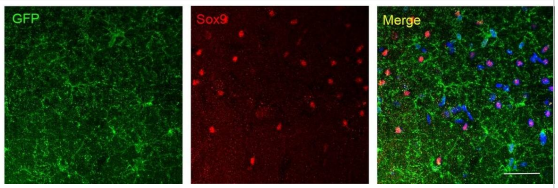


Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining of human skeletal muscle shows no nuclear positivity in striated muscle fibers as expected.



Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining of human small intestine shows moderate nuclear positivity in a subset of glandular cells.	
Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining of human testis shows moderate nuclear positivity in a subset of cells in seminiferous ducts.	
Simple Western: SOX9 Antibody [NBP1-85551] - Simple Western lane view shows a specific band for SOX9 in 0.1 mg/ml of U-251MG sp (left) and HepG2 (right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.	
Simple Western: SOX9 Antibody [NBP1-85551] - Electropherogram image(s) of corresponding Simple Western lane view. SOX9 antibody was used at 1:100 dilution on U-251MG sp and HepG2 lysates(s).	

Further analysis of P2X7-EGFP expressing cells in the dentate gyrus and CA1 region. (B) Co-staining of EGFP (A10262, Thermo Fischer Scientific) with the alternative astrocyte marker Sox 9 in the CA1 region. Scale bar: 50 um. DAPI staining in blue (n = at least three animals in all experiments). Image collected and cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/30074479), licensed under a CC-BY licence.



Publications

Waters BJ, Birman ZR, Wagner MR et al. Islet architecture in adult mice is actively maintained by Robo2 expression in ? cells Developmental biology 2023-11-15 [PMID: 37972678] (IHC, Mouse)

Lu JH, Chueh KS, Juan TJ et al. Effects of Therapeutic Platelet-Rich Plasma on Overactive Bladder via Modulating Hyaluronan Synthesis in Ovariectomized Rat International journal of molecular sciences 2023-05-04 [PMID: 37175945] (WB, Rat)

Deepe R, Drummond J, Wolters R et al. Sox9 Expression in the Second Heart Field; A Morphological Assessment of the Importance to Cardiac Development with Emphasis on Atrioventricular Septation Journal of Cardiovascular Development and Disease 2022-11-02 [PMID: 36354775] (IHC-Fr, Mouse)

Baek I, Bello AB, Jeon J et al. Therapeutic potential of epiphyseal growth plate cells for bone regeneration in an osteoporosis model Journal of tissue engineering 2022-08-11 [PMID: 35983547] (WB, Rat)

Details:
EGPCs and BM-MSCs were isolated from 8 weeks old Sprague Dawley (SD) male rat. Dilution used 1:1000.

Liu Q, Guo Q, Guo W et al. Loss of CEP70 function affects acrosome biogenesis and flagella formation during spermiogenesis Cell death & disease 2021-05-12 [PMID: 33980814] (IF/IHC, Mouse)

Winkler A, Wrzos C, Haberl M et al. Blood-brain barrier resealing in neuromyelitis optica occurs independently of astrocyte regeneration The Journal of clinical investigation 2021-03-01 [PMID: 33645550] (Rat)

Deepe R, Fitzgerald E, Wolters R et al. The Mesenchymal Cap of the Atrial Septum and Atrial and Atrioventricular Septation J Cardiovasc Dev Dis 2020-11-04 [PMID: 33158164] (IF/IHC, Mouse)

Fantinato E, Milani L et al. Sox9 expression in canine epithelial skin tumors. Eur J Histochem 2015-09-07 [PMID: 26428883] (IF/IHC, Canine)

van Gastel N, Stegen S, Eelen G et al. Lipid availability determines fate of skeletal progenitor cells via SOX9 Nature 2020-02-26 [PMID: 32103177] (IHF-Fr, IHC-P, Mouse)

Tournaire G, Stegen S, Giacomini G et al. Nestin-GFP transgene labels skeletal progenitors in the periosteum Bone 2020-04-01 [PMID: 32036051]

Cheng B, Liu Y, Zhao Y et al. The role of anthrax toxin protein receptor 1 as a new mechanosensor molecule and its mechanotransduction in BMSCs under hydrostatic pressure Sci Rep 2019-09-02 [PMID: 31477767] (WB, Rat)

Roberts RR, Bobzin L, Teng CS et al. FGF signaling patterns cell fate at the interface between tendon and bone Development 2019-07-18 [PMID: 31320326]

More publications at http://www.novusbio.com/NBP1-85551

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 NBP1-85551

NBP1-85551PEP	SOX9 Recombinant Protein Antigen
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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP1-85551

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications