

Product Datasheet

SOX9 Antibody - BSA Free

NBP1-85551

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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NBP1-85551

SOX9 Antibody - BSA Free

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

Description	Novus Biologicals Rabbit SOX9 Antibody - BSA Free (NBP1-85551) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-SOX9 Antibody: Cited in 25 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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 literature (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 QNSSSYSHAAGQGTGLYSTFTYMNPAQRPMYTPADTSGVPSIPQTHSPQH WEQPVYTLTR

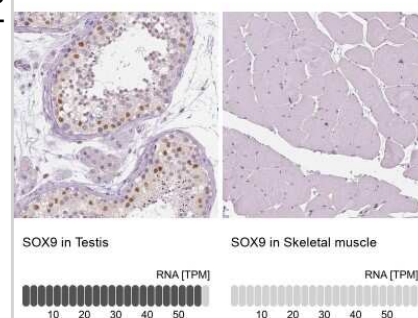
Product Application Details

Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000
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. See Simple Western Antibody Database for Simple Western validation: Tested in U-251MG sp and HepG2, separated by Size, antibody dilution of 1:100, apparent MW was 59 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

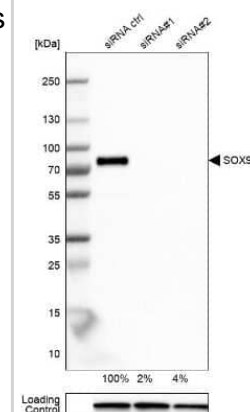


Images

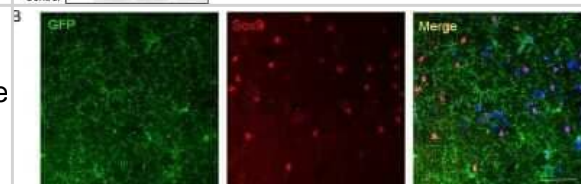
Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining in human testis and skeletal muscle tissues . Corresponding SOX9 RNA-seq data are presented for the same tissues.



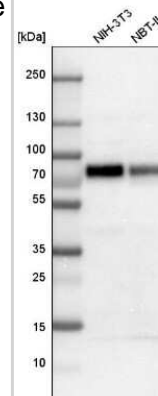
Western Blot: SOX9 Antibody [NBP1-85551] - Analysis in U-251MG cells transfected with control siRNA, target specific siRNA probe #1 and #2, using anti-SOX9 antibody. Remaining relative intensity is presented. Loading control: anti-GAPDH.



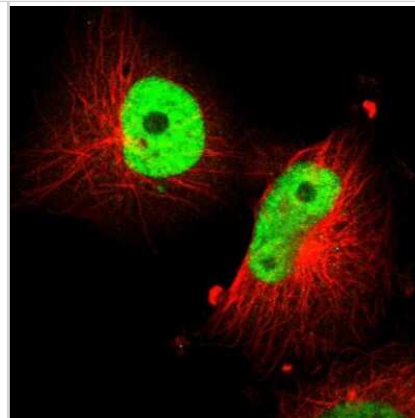
Immunocytochemistry/Immunofluorescence: SOX9 Antibody [NBP1-85551] - Further analysis of P2X7-EGFP expressing cells in the dentate gyrus and CA1 region. Co-staining of EGFP with the alternative astrocyte marker SOX9 in the CA1 region. Scale bar: 50 um. DAPI staining in blue (n = at least three animals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



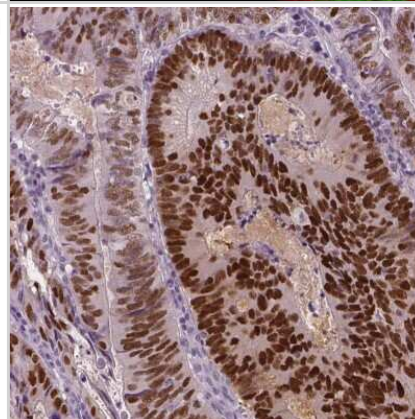
Western Blot: SOX9 Antibody [NBP1-85551] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



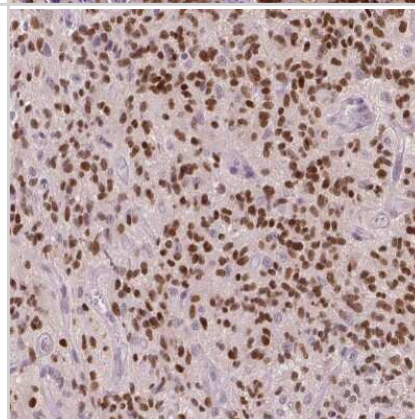
Immunocytochemistry/Immunofluorescence: SOX9 Antibody [NBP1-85551] - Staining of human cell line U-251 MG shows localization to nucleoplasm. Antibody staining is shown in green.



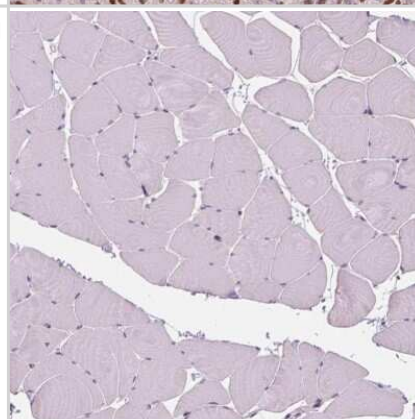
Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining of human colorectal cancer shows moderate to strong nuclear positivity in tumor cells.



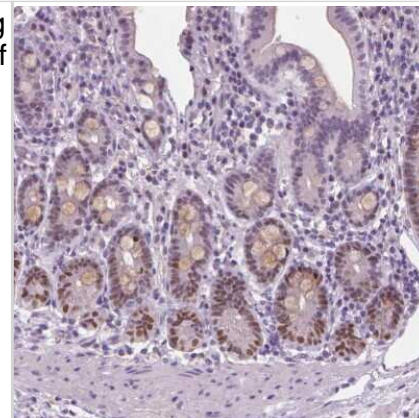
Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining of human glioma shows moderate to strong nuclear positivity in tumor cells.



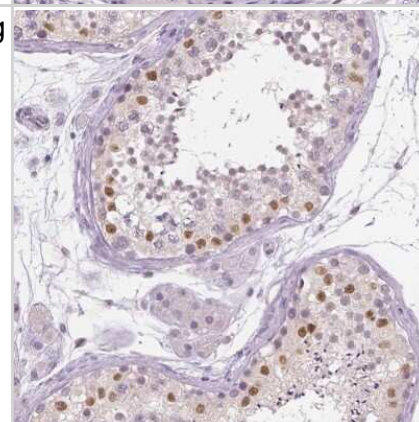
Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining of human skeletal muscle shows no nuclear positivity in striated muscle fibers as expected.



Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining of human small intestine shows moderate nuclear positivity in a subset of glandular cells.



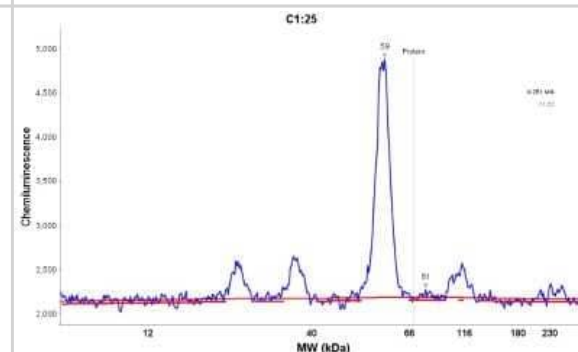
Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining of human testis shows moderate nuclear positivity in a subset of cells in seminiferous ducts.



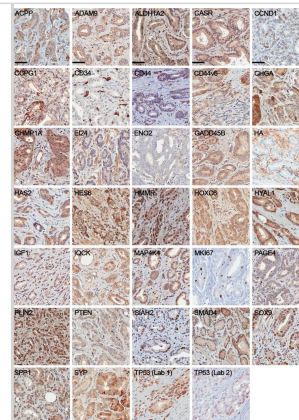
Simple Western: SOX9 Antibody [NBP1-85551] - Simple Western lane view shows a specific band for SOX9 in 0.1 mg/ml of U-251MG sp (left) and HepG2 (right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



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).



Immunohistochemistry of candidate biomarkers in prostate cancer. Representative immunohistochemical staining of ACPP, ADAM9, ALDH1A2, CASR, CCND1, CPG1, CD34, CD44, CD44v6, CHGA, CHMP1A, EI24, ENO2, GADD45B, HA, HAS2, HES6, HMMR, HOXC6, HYAL1, IGF1, IQCK, MAP4K4, MKI67, PAGE4, PLIN2, PTEN, SIAH2, SMAD4, SOX9, SPP1, SYP, & TP53 from prostate cancer tissue microarrays. Scale bar represents 50 μ m. Image collected & cropped by CiteAb from the following publication (<https://bmccancer.biomedcentral.com/articles/10.1186/1471-2407-14-244>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Bobzin L, Nickle A, Ko S et al. FGFR2 directs inhibition of WNT signaling to regulate anterior fontanelle closure during skull development. *Development (Cambridge, England)* 2025-01-20 [PMID: 39775862]

Drummond J, Deepe R, Tarolli H et al. Sox9 in the second heart field and the development of the outflow tract; implications for cardiac septation and valve formation *Developmental dynamics : an official publication of the American Association of Anatomists* 2025-03-26 [PMID: 40135884]

Chen HJ, Barske L, Talbot JC et al. Nuclear receptor Nr5a2 promotes diverse connective tissue fates in the jaw *Developmental cell* 2023-03-27 [PMID: 36905926]

Stegen S, Rinaldi G, Loopmans S, Stockmans I et Al. Glutamine Metabolism Controls Chondrocyte Identity and Function *Dev Cell* 2020-05-30 [PMID: 32470321]

Alencar GF, Owsiany KM, Karnewar S et Al. Stem Cell Pluripotency Genes Klf4 and Oct4 Regulate Complex SMC Phenotypic Changes Critical in Late-Stage Atherosclerotic Lesion Pathogenesis *Circulation* 2020-07-17 [PMID: 32674599]

Yano-Sakamoto K, Kitai Y, Toriu N et al. Expression pattern of Runt-related transcription factor (RUNX) family members and the role of RUNX1 during kidney development. *Biochemical and biophysical research communications* 2024-06-14 [PMID: 38795454]

Waters BJ, Birman ZR, Wagner MR et al. Islet architecture in adult mice is actively maintained by Robo2 expression in β 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)

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

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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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