

# 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**

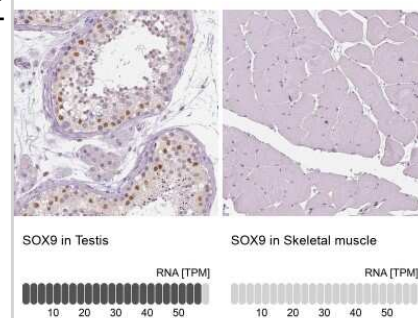
SOX9 Antibody - BSA Free

| 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                      | 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 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:<br>SQRTHIKTEQLSPSHYSEQQQHSPQQIAYSPFNLPHYSPSYPPITRSQYDYTDH<br>QNSSSYSHAAGQGTGLYSTFTYMNPAQRPMYTPADTSGVPSIPQTHSPQH<br>WEQPVYTQLTR  |
| 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.<br>See <a href="#">Simple Western Antibody Database</a> 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. |

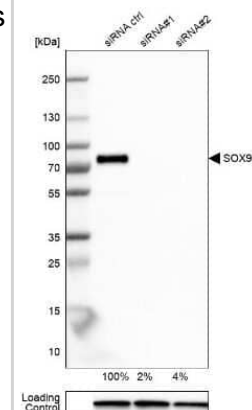


## Images

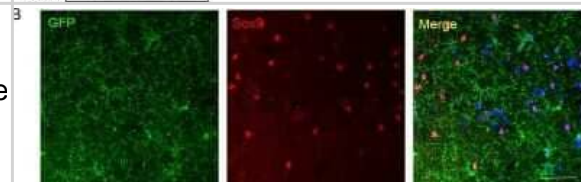
Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining in human testis and skeletal muscle tissues . Corresponding SOX9 RNA-seq data are presented for the same tissues.



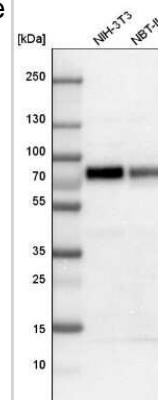
Western Blot: SOX9 Antibody [NBP1-85551] - Analysis in U-251MG cells transfected with control siRNA, target specific siRNA probe #1 and #2, using anti-SOX9 antibody. Remaining relative intensity is presented. Loading control: anti-GAPDH.



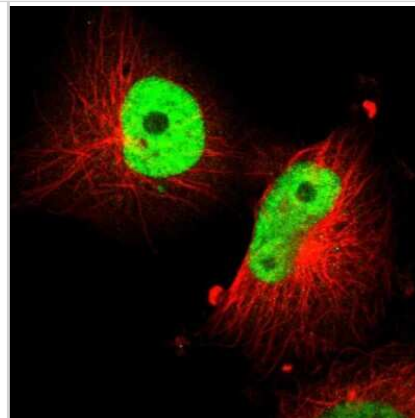
Immunocytochemistry/Immunofluorescence: SOX9 Antibody [NBP1-85551] - Further analysis of P2X7-EGFP expressing cells in the dentate gyrus and CA1 region. Co-staining of EGFP with the alternative astrocyte marker SOX9 in the CA1 region. Scale bar: 50 um. DAPI staining in blue (n = at least three animals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



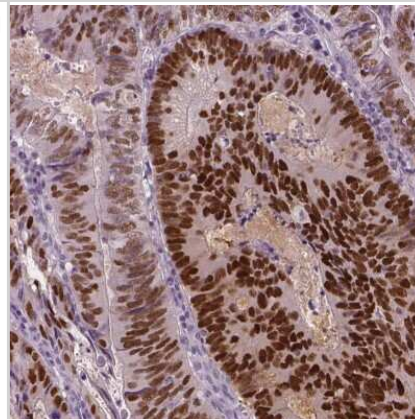
Western Blot: SOX9 Antibody [NBP1-85551] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



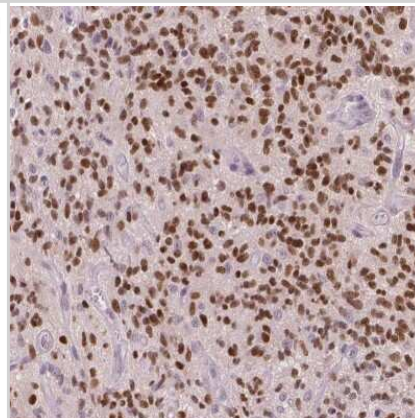
Immunocytochemistry/Immunofluorescence: SOX9 Antibody [NBP1-85551] - Staining of human cell line U-251 MG shows localization to nucleoplasm. Antibody staining is shown in green.



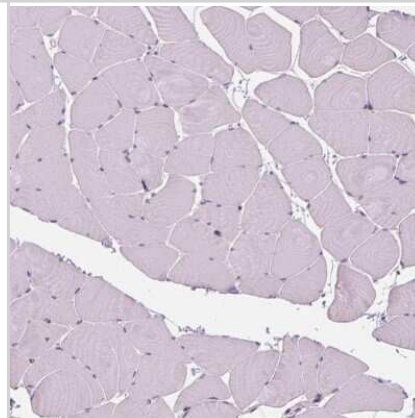
Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining of human colorectal cancer shows moderate to strong nuclear positivity in tumor cells.



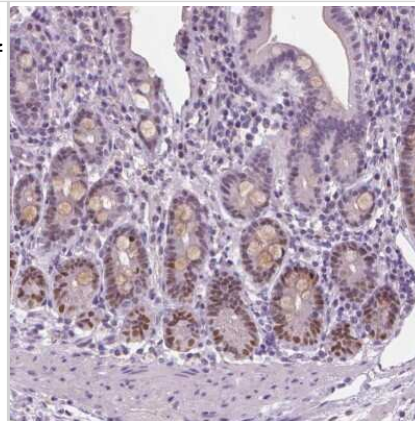
Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining of human glioma shows moderate to strong nuclear positivity in tumor cells.



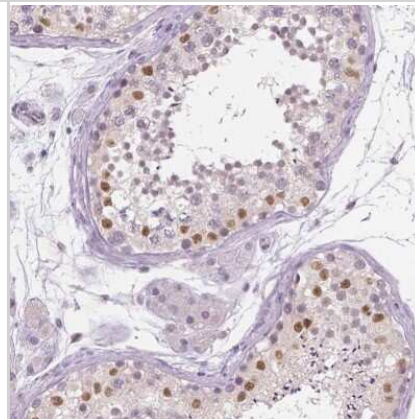
Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining of human skeletal muscle shows no nuclear positivity in striated muscle fibers as expected.



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



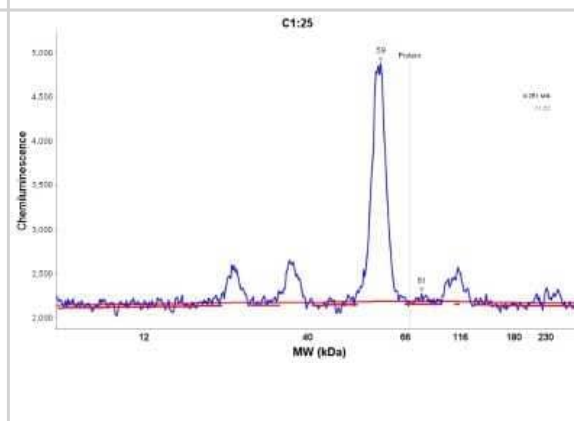
Immunohistochemistry-Paraffin: SOX9 Antibody [NBP1-85551] - Staining of human testis shows moderate nuclear positivity in a subset of cells in seminiferous ducts.



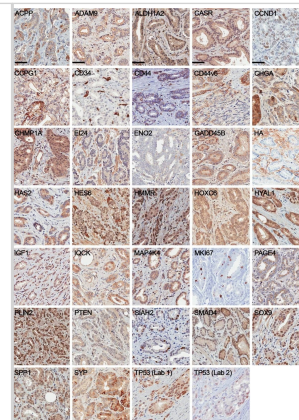
Simple Western: SOX9 Antibody [NBP1-85551] - Simple Western lane view shows a specific band for SOX9 in 0.1 mg/ml of U-251MG sp (left) and HepG2 (right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



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, CCPG1, 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  $\mu$ 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  $\beta$  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>



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### **Products Related to NBP1-85551**

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|               |   |
|---------------|---|
| 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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### **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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