

Product Datasheet

SOX9 Antibody - BSA Free

NBP2-24659

Unit Size: 0.1 mg

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

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NBP2-24659

SOX9 Antibody - BSA Free

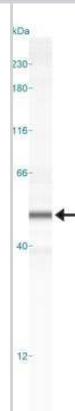
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	6662
Gene Symbol	SOX9
Species	Human, Mouse, Rat, Canine, Feline, Goat, Primate, Sheep
Reactivity Notes	Sheep reactivity reported in scientific literature (PMID: 29624608). The amino acid sequence used as immunogen for the ZBTB2 antibody is 100% homologous in monkey, opossum and horse, and 93% homologous in cow and chimpanzee.
Marker	Sertoli Cell Marker
Immunogen	A portion of amino acids 225-275 of human SOX9 was used as the immunogen for this antibody.

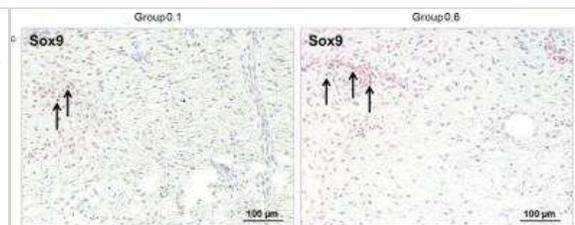
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 2-5 ug/ml, Simple Western 1:50, Immunohistochemistry, Immunohistochemistry-Paraffin 5 ug/ml, Immunohistochemistry-Frozen
Application Notes	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 Human Brain lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:50, apparent MW was 51 kDa.

Images

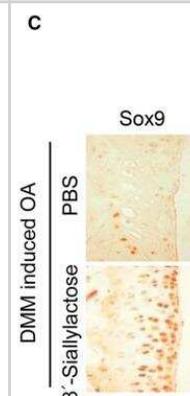
Simple Western: SOX9 Antibody [NBP2-24659] - Simple Western lane view shows a specific band for SOX9 in 0.5 mg/ml of Human Brain lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



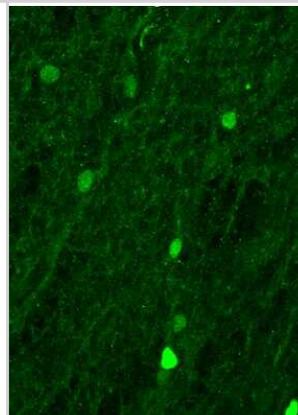
Immunohistochemistry: SOX9 Antibody [NBP2-24659] - Osteochondroprogenitor cells in the zone adjacent to the titanium plate surface are positive for Sox9 (arrows). Picture on the left represent Group 0.1, pictures on the right represent Group 0.6. 100-fold (c-d) magnification. PLoS One. 2018 Apr 6;13(4):e0195466. doi: 10.1371/journal.pone.0195466.



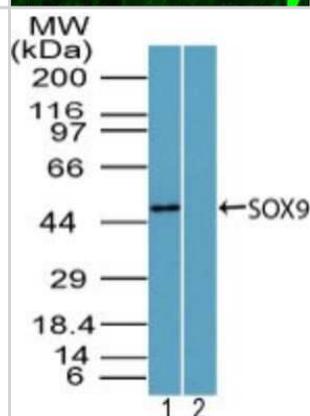
Immunohistochemistry: SOX9 Antibody [NBP2-24659] - 3'-Sialyllactose regulates anabolic and catabolic factor expression via Erk and NF- κ B pathways. (C) Immunohistochemical staining of Sox9 in DMM-induced OA mice with administration of PBS and 3'-sialyllactose. Image collected and cropped by CiteAb from the following publication (<https://doi.wiley.com/10.1111/jcmm.13292>), licensed under a CC-BY license.



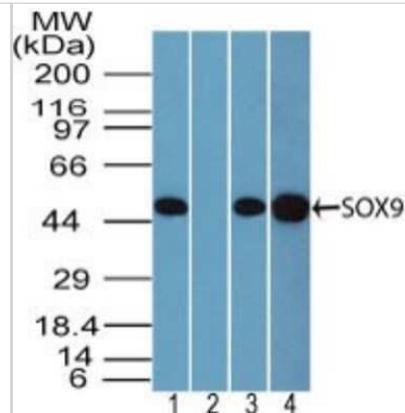
Immunohistochemistry-Frozen: SOX9 Antibody [NBP2-24659] - Feline optic nerve tissue section was incubated with antibody at 1:200 and further stained with Alexa secondary antibody. Image was captured with an epifluorescence microscope. This image was submitted via customer review.



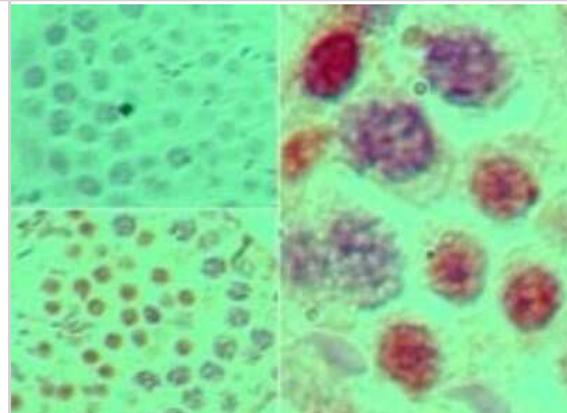
Western Blot: SOX9 Antibody [NBP2-24659] - Analysis of SOX9 in mouse embryo brain lysate in the 1) absence and 2) presence of immunizing peptide using SOX9 antibody at 2 μ g/ml. Goat anti-rabbit Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.



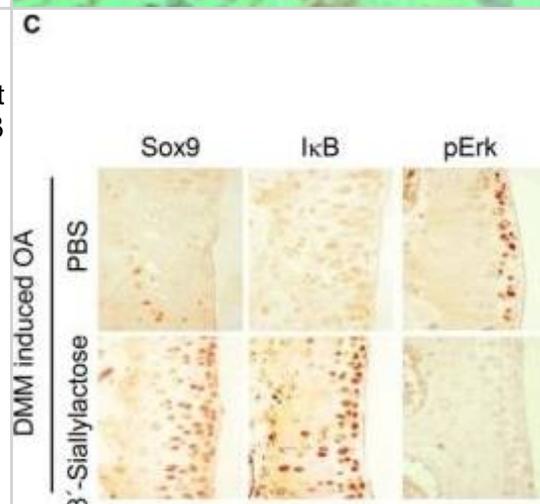
Western Blot: SOX9 Antibody [NBP2-24659] - Analysis of SOX9 in human brain lysate in the 1) absence and 2) presence of immunizing peptide, 3) mouse brain and 4) rat brain lysate using SOX9 antibody at 3 ug/ml.



Immunohistochemistry-Paraffin: SOX9 Antibody [NBP2-24659] - Analysis of SOX9 in formalin-fixed, paraffin-embedded mouse testis tissue using an isotype control (top left) and SOX9 antibody (bottom left, right) at 5 ug/ml.



Immunohistochemistry-Paraffin: SOX9 Antibody [NBP2-24659] - 3'-Sialyllactose regulates anabolic & catabolic factor expression via Erk & NF κ B pathways. (A, B) Chondrocytes were pre-treated with different concentrations of 3'-sialyllactose for 24 hrs prior to treatment with IL β (5 ng/ml) for 10 min. Erk phosphorylation was measured by Western blotting (A, upper panel) & densitometry (A, lower panel). The protein level of I κ B was detected by Western blotting (B, upper panel) & densitometry (B, lower panel). Erk was detected as a loading control. (C) Immunohistochemical staining of Sox9, I κ B & pErk in DMM-induced OA mice with administration of PBS & 3'-sialyllactose. (D) Schematic diagram of the signalling pathway leading to Sox9 activation & NF κ B inhibition by 3'-sialyllactose. Values represent the means \pm S.E.M. *P < 0.05. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/28782172>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Schuelke J, Meyers N, Reitmaier S et al. Intramembranous bone formation after callus distraction is augmented by increasing axial compressive strain. PLoS ONE 2018-04-06 [PMID: 29624608] (IHC-P, Sheep)

Schulke J. Zunehmende Dehnung durch axiale Kompression steigert die intramembranöse Knochenbildung nach Kallusdistraction. Thesis. 2017-01-01 (IHC-P)

Jeon J, Kang LJ, Lee KM et al. 3'-Sialyllactose protects against osteoarthritic development by facilitating cartilage homeostasis J. Cell. Mol. Med. 2017-08-07 [PMID: 28782172] (IHC-P, Mouse)

Antunes JC, Tsaryk R, Goncalves R et al. Poly(γ -glutamic acid) as an exogenous promoter of chondrogenic differentiation of human mesenchymal stem/stromal cells Tissue Eng Part A 2015-03-11 [PMID: 25760236] (IHC-P, Human)



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Products Related to NBP2-24659

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00006662-P01-10ug	Recombinant Human SOX9 GST (N-Term) Protein

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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