

# Product Datasheet

## SOX10 Antibody (SOX10/991)

### NBP2-59620-100ug

Unit Size: 100 ug

Store at 4C.

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**NBP2-59620-100ug**

SOX10 Antibody (SOX10/991)

Product Information	
Unit Size	100 ug
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	SOX10/991
Preservative	0.05% Sodium Azide
Isotype	IgG2b Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Product Description	
Description	<p>Human Chromosome Location:22q13.1</p> <p>200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA &amp; 0.05% azide. Also available WITHOUT BSA &amp; azide at 1.0 mg/ml. (NBP2-59621)</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.</p>
Host	Mouse
Gene ID	6663
Gene Symbol	SOX10
Species	Human, Mouse
Marker	Melanoma Marker
Specificity/Sensitivity	<p>The specificity of this monoclonal antibody to its intended target was validated by HuProt™ Array, containing more than 19,000, full-length human proteins. Recognizes a protein of ~55kDa, identified as SOX10. This monoclonal antibody is highly specific and does not cross-react with other members of the SOX-family. SOX genes comprise a family of genes that are related to the mammalian sex-determining gene SRY. These genes similarly contain sequences that encode for the HMG-box domain, which is responsible for the sequence-specific DNA-binding activity. SOX-10 is a sensitive marker of melanoma, including conventional, spindle, and desmoplastic subtypes. It is expressed by metastatic melanomas and nodal capsular nevus in sentinel lymph nodes, but not by other lymph node components such as dendritic cells, which usually express S100 protein. Commonly used melanoma markers, such as anti-HMB-45 and anti-Melan-A, are poorly expressed in desmoplastic melanomas while SOX-10 is moderately to strongly expressed in desmoplastic melanomas. SOX-10 is considered as a very reliable marker for recognizing residual desmoplastic melanomas. In normal tissues, it is expressed in Schwann cells, melanocytes, and myoepithelial cells of salivary, bronchial and mammary glands. SOX-10 expression is also observed in mast cells.</p>
Immunogen	Recombinant human SOX10 protein fragment (around aa115-269) (exact sequence is proprietary) (Uniprot: P56693)

**Product Application Details**

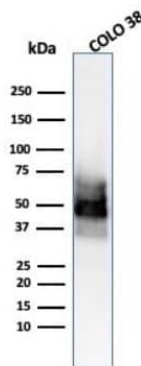
<b>Applications</b>	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Flow (Intracellular), Immunohistochemistry, Protein Array
<b>Recommended Dilutions</b>	Western Blot 1-2 ug/ml, Simple Western, Immunohistochemistry, Immunohistochemistry-Paraffin 1-2 ug/ml, Protein Array 1:100-1:2000, Flow (Intracellular)
<b>Application Notes</b>	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. SOX10 Antibody (SOX10/991) validated for Simple Western from a verified customer review. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation

## Images

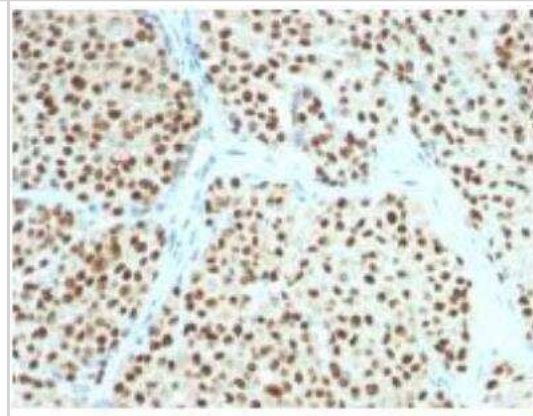
Protein Array: SOX10 Antibody (SOX10/991) [NBP2-59620] - containing more than 19,000 full-length human proteins. Z- and S- Score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary) produces when binding to a particular protein on the HuProt array. Z-scores are described in units of standard deviations above the mean value of all signals generated on that array. If targets on HuProt are arranged in descending order of the Z-score, the S-score is the difference between the Z-score. S-score therefore represents the relative target specificity of an Ab to its intended target. An Ab is considered to specific to its intended target, if the Ab has an S-score of at least 2.5. For example, if Ab binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Ab to protein X is equal to 29



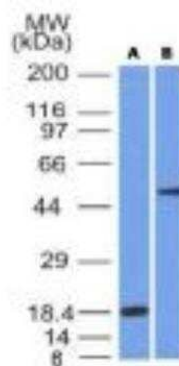
Western Blot: SOX10 Antibody (SOX10/991) [NBP2-59620] - Western Blot Analysis of COLO-38 cell lysate using SOX10 antibody (SOX10/991).



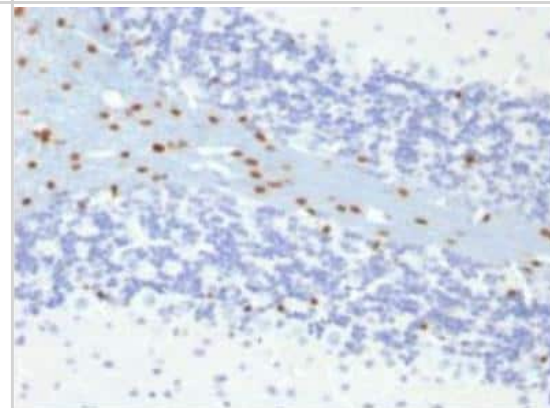
Immunohistochemistry-Paraffin: SOX10 Antibody (SOX10/991) [NBP2-59620] - Formalin-fixed, paraffin-embedded Human Melanoma stained with SOX10 Mouse Monoclonal Antibody (SOX10/991).



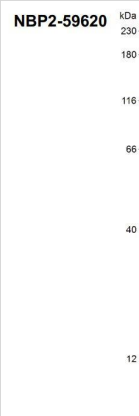
Western Blot: SOX10 Antibody (SOX10/991) [NBP2-59620] - analysis of SOX10 (A) Recombinant protein (B) A375 Cell lysate using SOX10 Mouse Monoclonal Antibody (SOX10/991).



Immunohistochemistry-Paraffin: SOX10 Antibody (SOX10/991) [NBP2-59620] - Formalin-fixed, paraffin-embedded Mouse Brain stained with SOX10 Mouse Monoclonal Antibody (SOX10/991).



Simple Western: SOX10 Antibody (SOX10/991) [NBP2-59620] - Analysis of SOX10 antibody on mouse hippocampus sample. Primary antibody dilution: 1:50.1 ug/uL protein. Image from verified customer review.



## Publications

Fadi S, Saleh AMM, Abou-Elmagd A, Abdel-Maksoud FM Prehatching development of the adrenal gland in Japanese quail (*Coturnix japonica*): Histological, immunohistochemical, and electron microscopic studies *Microscopy research and technique* 2023-11-22 [PMID: 37990954]

Ganz J, Luquette LJ, Bizzotto S et al. Contrasting patterns of somatic mutations in neurons and glia reveal differential predisposition to disease in the aging human brain *bioRxiv : the preprint server for biology* 2023-01-14 [PMID: 36711756] (FLOW, Human)

Lohrberg M, Winkler A, Franz J et al. Lack of astrocytes hinders parenchymal oligodendrocyte precursor cells from reaching a myelinating state in osmolyte-induced demyelination *Acta neuropathologica communications* 2020-12-24 [PMID: 33357244] (IHC-P, Human)



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### **Products Related to NBP2-59620-100ug**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)
H00006663-Q01-10ug	Recombinant Human SOX10 GST (N-Term) Protein

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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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