

# Product Datasheet

## SOX10 Antibody (SOX10/991) - Azide and BSA Free NBP2-59621

Unit Size: 100 ug

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-59621**

SOX10 Antibody (SOX10/991) - Azide and BSA Free

Product Information	
Unit Size	100 ug
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	SOX10/991
Preservative	No Preservative
Isotype	IgG2b Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS

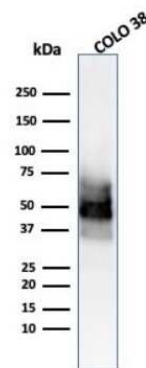
Product Description	
Description	<p>Human Chromosome Location:22q13.1</p> <p>1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA &amp; azide. Also available at 200 ug/ml WITH BSA &amp; azide (NBP2-59620).</p> <p>Antibody with azide - store at 2 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**

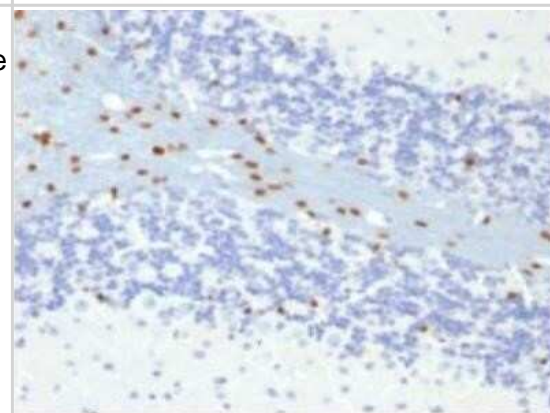
<b>Applications</b>	Western Blot, Flow Cytometry, Flow (Intracellular), Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 0.5-1 ug/ml, Flow Cytometry 0.5-1 ug/million cells, Immunohistochemistry, Immunohistochemistry-Paraffin 0.5-1 ug/ml, Protein Array, Flow (Intracellular), CyTOF-ready
<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.

## Images

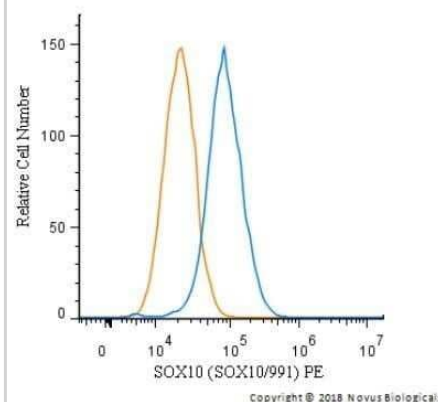
Western Blot: SOX10 Antibody (SOX10/991) - Azide and BSA Free [NBP2-59621] - Western Blot Analysis of COLO-38 cell lysate using SOX10 antibody (SOX10/991).



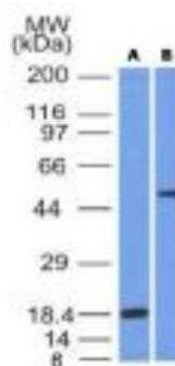
Immunohistochemistry-Paraffin: SOX10 Antibody (SOX10/991) - Azide and BSA Free [NBP2-59621] - Formalin-fixed, paraffin-embedded Mouse Brain stained with SOX10 Mouse Monoclonal Antibody (SOX10/991).



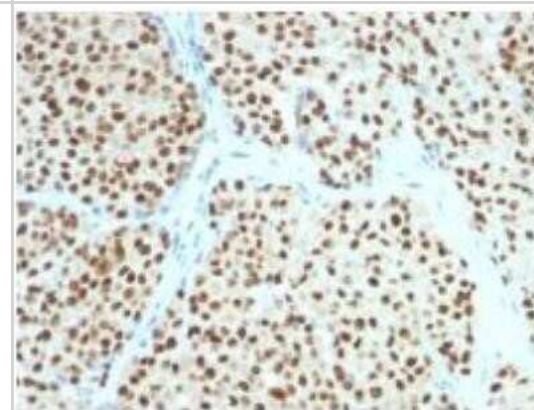
Flow (Intracellular): SOX10 Antibody (SOX10/991) - Azide and BSA Free [NBP2-59621] - An intracellular stain was performed on SK-MEL-28 cells with SOX10 Antibody [SOX10/991] NBP2-59621PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Phycoerythrin. Image using the Azide and BSA Free format of this antibody.



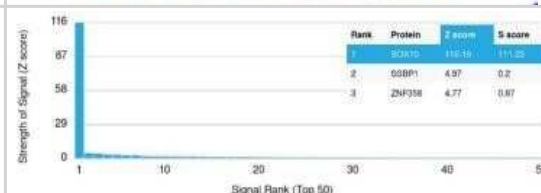
Western Blot: SOX10 Antibody (SOX10/991) - Azide and BSA Free [NBP2-59621] - analysis of SOX10 (A) Recombinant protein (B) A375 Cell lysate using SOX10 Mouse Monoclonal Antibody (SOX10/991).



Immunohistochemistry-Paraffin: SOX10 Antibody (SOX10/991) - Azide and BSA Free [NBP2-59621] - Formalin-fixed, paraffin-embedded Human Melanoma stained with SOX10 Mouse Monoclonal Antibody (SOX10/991).



Protein Array: SOX10 Antibody (SOX10/991) - Azide and BSA Free [NBP2-59621] - 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



## Publications

Javier Ganz, Lovelace J. Luquette, Sara Bizzotto, Michael B. Miller, Zinan Zhou, Craig L. Bohrsen, Hu Jin, Antuan V. Tran, Vinayak V. Viswanadham, Gannon McDonough, Katherine Brown, Yasmine Chahine, Brian Chhouk, Alon Galor, Peter J. Park, Christopher A. Walsh Contrasting somatic mutation patterns in aging human neurons and oligodendrocytes Cell 2024-04-07 [PMID: 38503282]

Su X Tumour extracellular vesicles induce lymph node inflammatory pre-metastatic niche formation Thesis 2023-01-01 (ICC/IF)



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### **Products Related to NBP2-59621**

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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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