

Product Datasheet

SOX10 Antibody (orb2640423)

Catalog Number	orb2640423
Category	Antibodies
Description	<p>This mAb recognizes a protein of ~50 kDa identified as SOX10. This mAb 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>
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2b, kappa
Conjugation	Unconjugated
Reactivity	Human, Mouse
Buffer/Preservatives	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
Purification	Protein G affinity chromatography

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Immunogen	Amino acids 115-269 of the human protein were used as the immunogen for the SOX10 antibody.
UniProt ID	P56693
Tested applications	IHC-P, WB
Dilution range	Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Application notes	Optimal dilution of the SOX10 antibody should be determined by the researcher.1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
Antibody Type	Primary Antibody
Clone Number	SOX10/991
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.

Human Protein Microarray Specificity Validation



Protein array validation of the SOX10 antibody: Analysis of HuProt (TM) microarray containing more than 19, 000 full-length human proteins using SOX10 antibody (clone SOX10/991). These results demonstrate the foremost specificity of the SOX10/991 mAb. 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 Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

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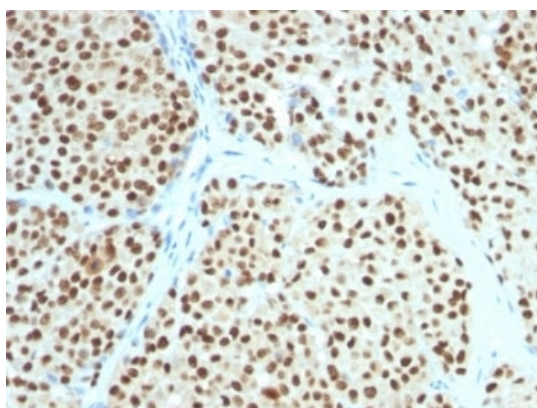
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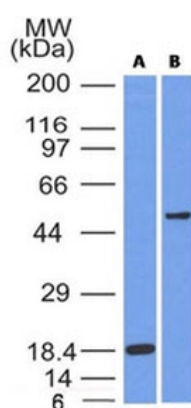
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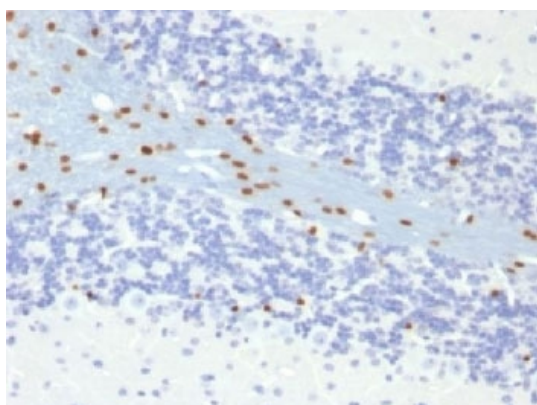
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IHC testing of FFPE human melanoma with SOX10 antibody (clone SOX10/991). Required HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



Western blot testing of A) partial recombinant protein B) A375 cell lysate using SOX10 antibody (SOX10/991). Predicted molecular weight ~50 kDa.



IHC testing of FFPE mouse brain with SOX10 antibody (clone SOX10/991). Required HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.

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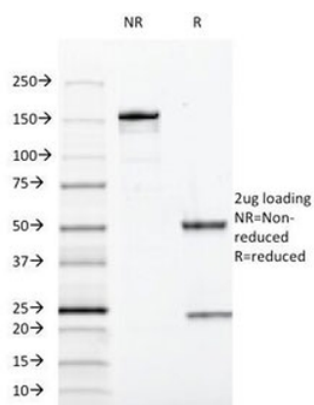
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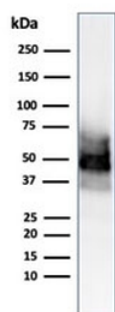
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SDS-PAGE Analysis of Purified, BSA-Free SOX10 Antibody (clone SOX10/991). Confirmation of Integrity and Purity of the Antibody.



Western blot testing of human COLO-38 cell lysate using SOX10 antibody (SOX10/991). Predicted molecular weight ~50 kDa.

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