

Product Datasheet

SOX-10 Antibody (orb750105)

Catalog Number	orb750105
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. SOX10 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 SOX10 is moderately to strongly expressed in desmoplastic melanomas. SOX10 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. SOX10 expression is also observed in mast cells.</p>
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2b, kappa
Conjugation	Unconjugated
Reactivity	Human, Mouse
Buffer/Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
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 SOX-10 antibody.
UniProt ID	P56693
Tested applications	IHC-P, WB
Dilution range	Western blot: 0.5-1ug/ml, Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Application notes	Optimal dilution of the SOX-10 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	SOX10/1074
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 SOX-10 antibody: Analysis of HuProt (TM) microarray containing more than 19, 000 full-length human proteins using SOX-10 antibody (clone SOX10/1074). 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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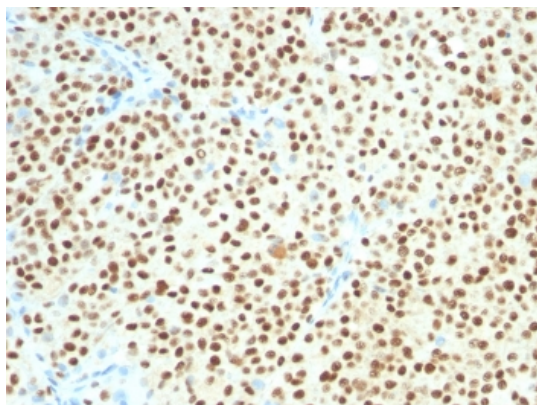
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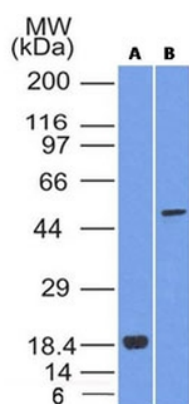
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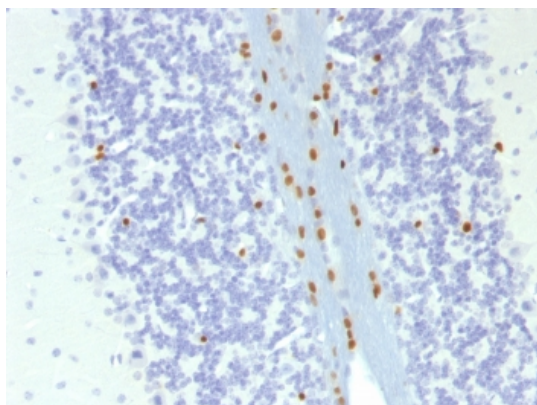
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IHC testing of FFPE human melanoma with SOX-10 antibody (clone SOX10/1074). Required HIER: boil tissue sections in 10mM citrate buffer, pH6, for 10-20 min followed by cooling at RT for 20 min.



Western blot testing of A) partial recombinant protein; B) A375 cell lysate using SOX-10 antibody (SOX10/1074). Predicted molecular weight ~50 kDa.



IHC testing of FFPE mouse brain with SOX-10 antibody (clone SOX10/1074). Required HIER: boil tissue sections in 10mM citrate buffer, pH6, for 10-20 min followed by cooling at RT for 20 min.

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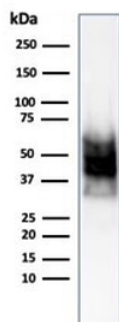
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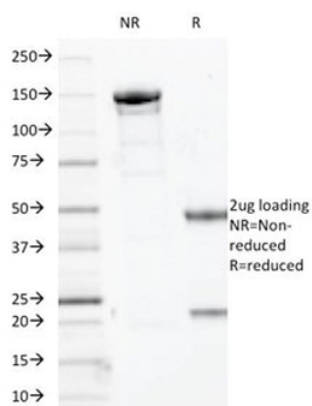
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Western blot testing of human COLO-38 cell lysate using SOX-10 antibody (SOX10/1074). Predicted molecular weight ~50 kDa.



SDS-PAGE analysis of purified, BSA-free SOX-10 antibody (clone SOX10/1074) as confirmation of integrity and purity.

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