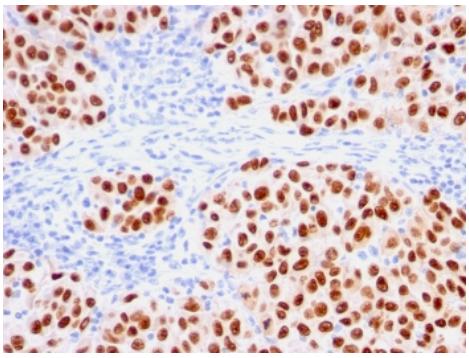
Recombinant SOX10 Antibody [clone rSOX10/1074] (V3563)

Catalog No.	Formulation	Size
V3563-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3563-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3563SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3563IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

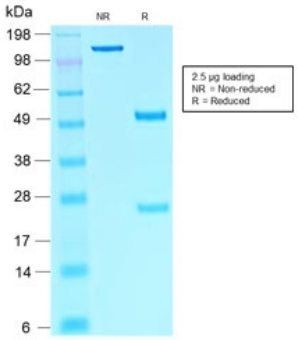
Recombinant MOUSE MONOCLONAL

Bulk quote request

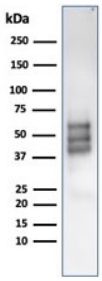
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rSOX10/1074
Purity	Protein G affinity chromatography
UniProt	P56693
Localization	Nuclear
Applications	Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT Western blot : 1-2ug/ml
Limitations	This recombinant SOX10 antibody is available for research use only.



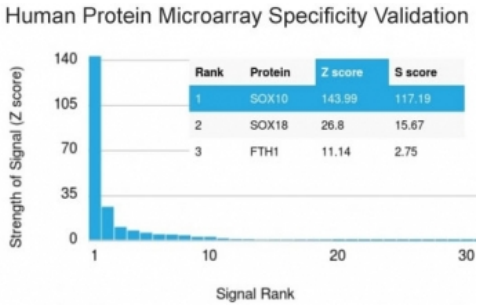
IHC testing of FFPE human melanoma with recombinant SOX10 antibody (clone rSOX10/1074). Required HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free recombinant SOX10 antibody (clone rSOX10/1074) as confirmation of integrity and purity.



Western blot testing of human COLO-38 cell lysate with recombinant SOX10 antibody (clone rSOX10/1074). Expected molecular weight: 50-58 kDa.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant SOX10 antibody. These results demonstrate the foremost specificity of the rSOX10/1074 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.

Description

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, spindled, 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.

Application Notes

Optimal dilution of the recombinant 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.

Immunogen

Amino acids 115-269 from the human protein were used as the immunogen for the recombinant SOX10 antibody.

Storage

Store the recombinant SOX10 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).