

Datasheet for ABIN5646947  
**anti-SOX10 antibody (AA 115-269)**



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4 Images

## Overview

Quantity:	100 µg
Target:	SOX10
Binding Specificity:	AA 115-269
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SOX10 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	Amino acids 115-269 of the human protein were used as the immunogen for the SOX10 antibody.
Clone:	SOX10-991
Isotype:	IgG2b kappa
Characteristics:	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

## Product Details

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.

Purification:	Purified
Purity:	Protein G affinity chromatography

## Target Details

Target:	SOX10
Alternative Name:	SOX10 ( <a href="#">SOX10 Products</a> )
Background:	<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, 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 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>
Pathways:	<a href="#">Chromatin Binding</a>

## Application Details

Application Notes:	<p>Optimal dilution of the SOX10 antibody should be determined by the researcher.</p> <p>1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After</p>
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Application Details

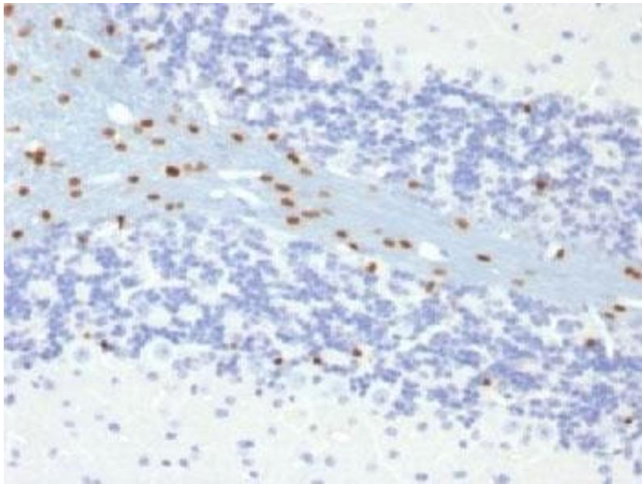
epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.\. Flow Cytometry: 0.5-1 µg/million cells in 0.1ml,Immunofluorescence: 1-2 µg/mL,Western blot: 0.5-1 µg/mL,Immunohistochemistry (FFPE): 0.5-1 µg/mL for 30 min at RT,Prediluted IHC only format: incubate for 30 min at RT (1)

Restrictions: For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	1 mg/mL in 1X PBS, BSA free, sodium azide free
Preservative:	Azide free
Storage:	4 °C,-20 °C
Storage Comment:	Store the SOX10 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

Images



Immunohistochemistry

**Image 1.** IHC testing of FFPE mouse brain with SOX10 antibody (clone SOX10/991). Required HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.

Human Protein Microarray Specificity Validation

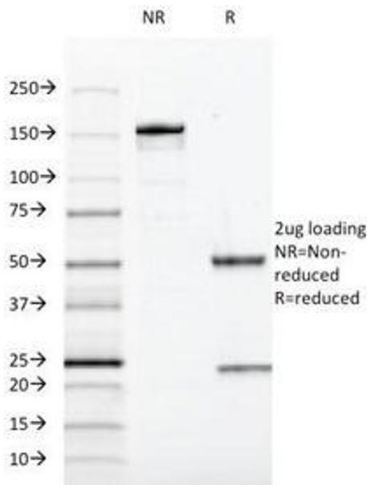


Microarray

**Image 2.** Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using SOX10 antibody (clone SOX10/991). 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.

SDS-PAGE

**Image 3.** SDS-PAGE Analysis of Purified, BSA-Free SOX10 Antibody (clone SOX10/991). Confirmation of Integrity and Purity of the Antibody.



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN5646947.