

Datasheet for ABIN6940626
anti-SOX10 antibody (AA 115-269)

2 Images

[Go to Product page](#)

Overview

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

Product Details

Immunogen:	Recombinant fragment (aa 115-269) of human SOX10 protein with hexa-histidine tag
Clone:	SPM607
Isotype:	IgG2b kappa
Specificity:	Recognizes a protein of ~55 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

Product Details

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 by Protein A/G

Target Details

Target: SOX10

Alternative Name: SOX10 ([SOX10 Products](#))

Molecular Weight: 49-58kDa

Gene ID: 6663

UniProt: [P56693](#)

Pathways: [Chromatin Binding](#)

Application Details

Application Notes: Positive Control: HepG2 cells. Melanomas, breast carcinomas, gliomas.
Known Application: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (1-2 µg/mL), Western Blot (0.5-1.0 µg/mL), Immunohistochemistry (Formalin-fixed) (0.5-1 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

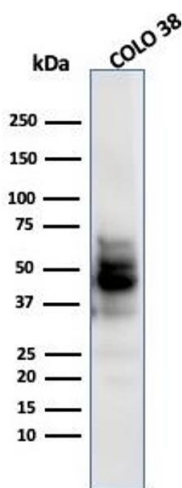
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

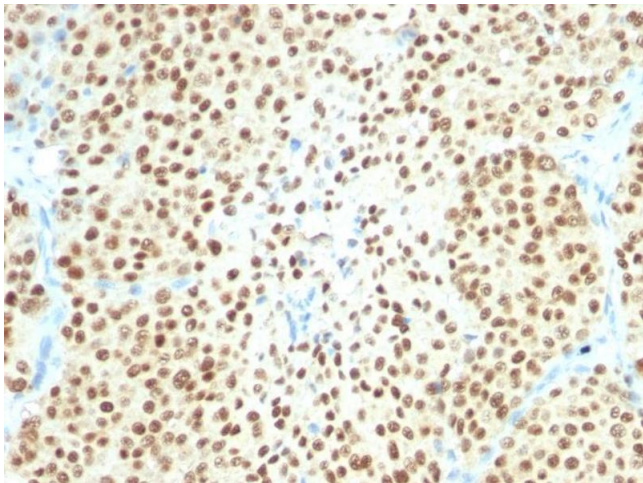
	should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



Western Blotting

Image 1. Western Blot Analysis of COLO-38 using SOX10 MAb (SPM607).



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Melanoma stained with SOX10 Monoclonal Antibody (SPM607).