

Datasheet for ABIN6940624
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 |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This SOX10 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Coating (Coat) |

Product Details

| | |
|--------------|--|
| Immunogen: | Recombinant human SOX10 protein fragment (aa115-269) |
| Clone: | SOX10-992 |
| Isotype: | IgG1 kappa |
| Specificity: | <p>The specificity of this monoclonal antibody to its intended target was validated by HuProt™ Array, containing more than 19,000, full-length human proteins. 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, spindle, and desmoplastic subtypes. It is expressed by metastatic melanomas and nodal capsular nevus in sentinel lymph</p> |

Product Details

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 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: ELISA (For coating, purchase antibody without BSA), Western Blot (0.5-1.0 µg/mL) 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 should be handled by trained staff only.

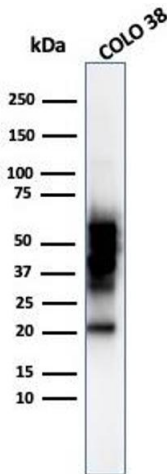
Storage: 4 °C, -80 °C

Handling

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.

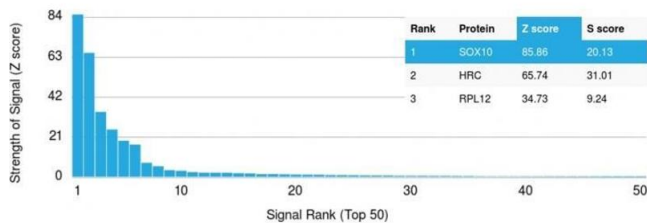
Expiry Date: 24 months

Images



Western Blotting

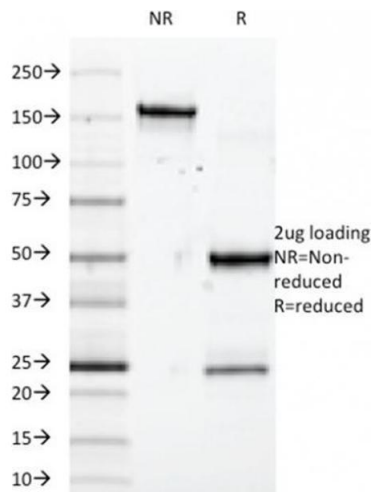
Image 1. Western blot analysis of COLO-38 cell lysate using SOX10 Mouse Monoclonal Antibody (SOX10/992).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using SOX10 Mouse Monoclonal Antibody (SOX10/992). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to be specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the

binding of that Monoclonal Antibody to protein X is equal to 29.



SDS-PAGE

Image 3. SDS-PAGE Analysis Purified SOX10 Mouse Monoclonal Antibody (SOX10/992). Confirmation of Integrity and Purity of Antibody.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6940624.