

## Recombinant SOX10 (Melanoma Marker) Antibody

Mouse Monoclonal Antibody [Clone rSOX10/13506]

Catalog No	Format	Size
6663-MSM19-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
6663-MSM19-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
6663-MSM19-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

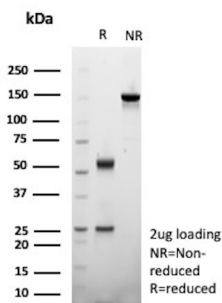
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

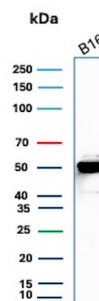
<b>Clone</b>	rSOX10/13506
<b>Gene Name</b>	SOX10
<b>Immunogen</b>	Recombinant human SOX10 protein fragment (around aa115-269) (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2b / Kappa
<b>Mol. Weight of Antigen</b>	49-58kDa
<b>Cellular Localization</b>	Cytoplasm, Mitochondrion outer membrane, Nucleus
<b>Species Reactivity</b>	Human, Mouse
<b>Positive Control</b>	UACC-257, UACC-62, COLO-38 or HepG2 cells. Human melanoma, glioma or skin. Brain.

\*Optimal dilution for a specific application should be determined.

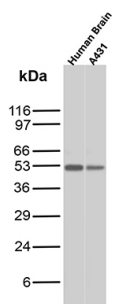
### Product Images for Recombinant SOX10 (Melanoma Marker) Antibody



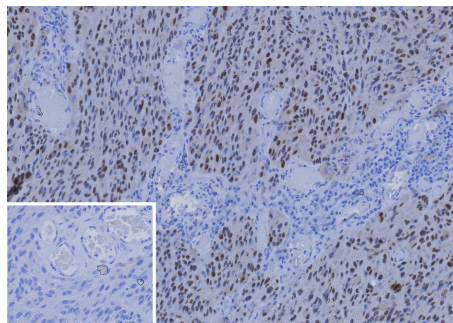
SDS-PAGE Analysis of Purified SOX10 Recombinant Mouse Monoclonal Antibody (rSOX10/13506). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of B16 cell lysate using SOX10 Recombinant Mouse Monoclonal Antibody (rSOX10/13506).



Western Blot Analysis of Human Brain and A431 lysates using SOX10 Recombinant Mouse Monoclonal Antibody (rSOX10/13506).



Formalin-fixed, paraffin-embedded human melanoma stained with SOX10 Recombinant Mouse Monoclonal Antibody (rSOX10/13506). Inset: PBS instead of primary antibody; secondary only negative control.

### Specificity & Comments

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 ~55kDa, 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.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab produced in CHO cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

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.

### Research Areas

Developmental Biology, Neural Stem Cells, Nuclear Marker, Transcription Factors