

SOX10 (Melanoma Marker) Antibody

Mouse Monoclonal Antibody [Clone PCRP-SOX10-1D8]

| Catalog No | Format | Size |
|-----------------|---|--------|
| 6663-MSM9-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 6663-MSM9-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 6663-MSM9-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

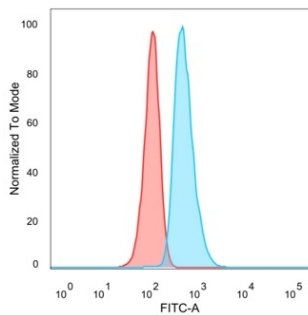
| Applications | Tested Dillution | Note |
|----------------------------|------------------|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT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

Product Details

| | |
|-------------------------------|--|
| Clone | PCRP-SOX10-1D8 |
| Gene Name | SOX10 |
| Immunogen | Recombinant human SOX10 protein fragment (around aa90-179) (exact sequence is proprietary) |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype / Light Chain | IgG2b |
| Mol. Weight of Antigen | 49-58kDa |
| Cellular Localization | Cytoplasm, Mitochondrion outer membrane, Nucleus |
| Species Reactivity | Human |
| Positive Control | breast carcinomas or gliomas., COLO-38 or HepG2 cells. Human melanomas |

*Optimal dilution for a specific application should be determined.

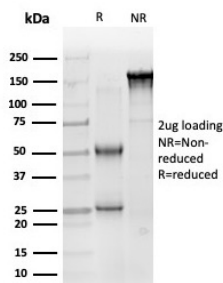
Product Images for SOX10 (Melanoma Marker) Antibody



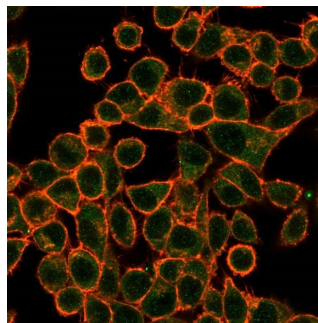
Flow cytometric analysis of PFA-fixed HeLa cells. SOX10 Mouse Monoclonal Antibody (PCRP-SOX10-1D8) followed by goat anti-mouse IgG-CF488 (blue); unstained cells (red).



Analysis of Protein Array containing more than 19,000 full-length human proteins using SOX10 Mouse Monoclonal Antibody (PCRP-SOX10-1D8) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (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 MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb 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 MAb to protein X is equal to 29.



SDS-PAGE Analysis of Purified SOX10 Mouse Monoclonal Antibody (PCRP-SOX10-1D8). Confirmation of Purity and Integrity of Antibody.



Immunofluorescence analysis of PFA-fixed HeLa cells. SOX10 Mouse Monoclonal Antibody (PCRP-SOX10-1D8) followed by IgG-CF488 (green), phalloidin counterstain (red).

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. SOX10 is a sensitive marker of melanoma, including conventional, spindle, and desmoplastic subtypes. 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. Often used melanoma markers, such as anti-HMB45 and anti-MelanA, are poorly expressed in desmoplastic melanomas while SOX10 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 & myoepithelial cells of salivary, bronchial & 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 purified from Bioreactor Concentrate by Protein A/G. 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