SP100 Antibody

Mouse Monoclonal Antibody [Clone PCRP-SP100-1B9]

Catalog No	Format	Size
6672-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
6672-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
6672-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

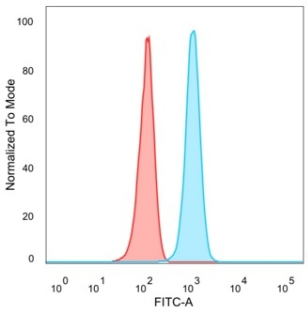
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

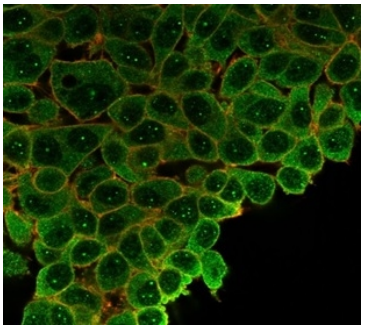
Clone	PCRP-SP100-1B9
Gene Name	SP100
Immunogen	Recombinant full-length human SP100 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b
Mol. Weight of Antigen	100.4kDa
Cellular Localization	Cytoplasm, Nucleus, PML body
Species Reactivity	Human
Positive Control	HeLa or U87 cells.

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

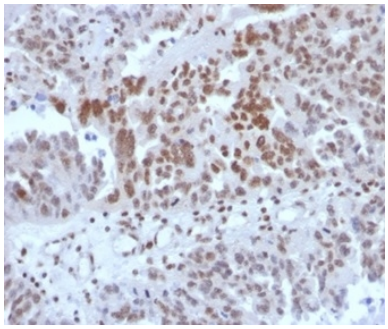
Product Images for SP100 Antibody



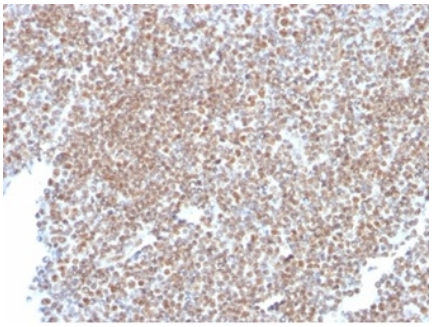
Flow cytometric analysis of PFA-fixed HeLa cells. SP100 Mouse Monoclonal Antibody (PCRP-SP100-1B9) followed by goat anti-mouse IgG-CF488 (blue); unstained cells (red).



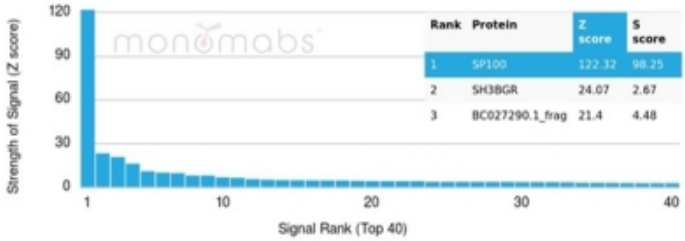
Immunofluorescence Analysis of PFA-fixed HeLa cells stained using SP100 Mouse Monoclonal Antibody (PCRP-SP100-1B9) followed by goat anti-mouse IgG-CF488. Membrane stained with phalloidin.



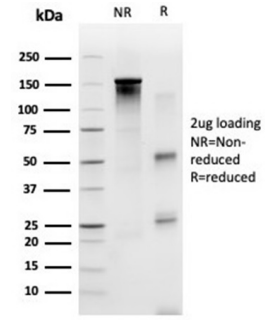
IHC analysis of formalin-fixed, paraffin-embedded human colon. Strong nuclear staining using PCRP-SP100-1B9 at 2ug/ml in PBS for 30min RT. HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



IHC analysis of formalin-fixed, paraffin-embedded human tonsil. Strong nuclear staining using PCRP-SP100-1B9 at 2ug/ml in PBS for 30min RT. HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing SP100 Mouse Monoclonal Antibody (PCRP-SP100-1B9). 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 HuProtTM 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 HuProtTM 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 Purified SP100 Mouse Monoclonal Antibody (PCRP-SP100-1B9). Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

The human SP100 gene encodes an autoantigen that co-localizes with PML and NDP52 in distinct nuclear domains, called nuclear dots (NDs) or ND10 nuclear bodies. Papova-, adeno-, and herpesviruses begin their transcription and DNA-replication at NDs, which play a role in autoimmunity, viral infections and in the etiology of acute promyelocytic leukemia. SP-100 is an interferon inducible protein that has two splice variants. One splice variant contains a highly conserved copy of the DNA-binding high mobility group 1 protein sequence, and thus represents a novel HMG-box protein. This alternatively spliced variant of SP-100 has a unique expression and localization pattern that is distinct from the SP-100 full-length protein. The SP100 protein is covalently modified by the small ubiquitin-related protein SUMO-1. SP-100 contains a functional nuclear localization signal and an ND-targeting region, which overlaps with the SP-100 homodimerization domain.

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

Cardiovascular, Cytokine Signaling, Immunology, Nuclear Marker

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.