Podoplanin (PDPN) (Lymphatic Endothelial & Mesothelial Marker) Antibody

Mouse Monoclonal Antibody [Clone PDPN/1433]

Catalog No	Format	Size
10630-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
10630-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
10630-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

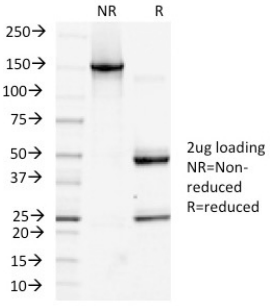
Applications	Tested Dillution	Note
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

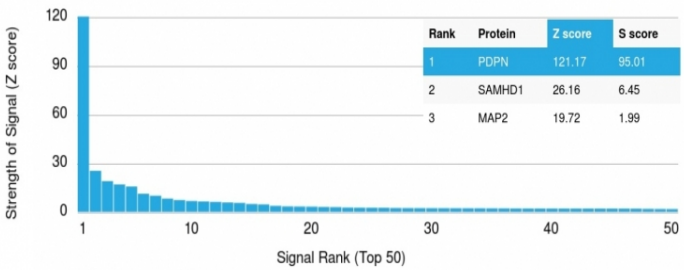
Clone	PDPN/1433
Gene Name	PDPN
Immunogen	Recombinant human Podoplanin (PDPN) protein fragment (around aa 24-126) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	38-43kDa
Cellular Localization	Apical cell membrane, Basolateral cell membrane, Cell projection, Cytoplasm, Cytosol, Filopodium membrane, Invadopodium, Lamellipodium membrane, Membrane, Membrane raft, Microvillus membrane, Ruffle membrane
Species Reactivity	Human
Positive Control	HeLa cells. Cervical or Lung Carcinoma.

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

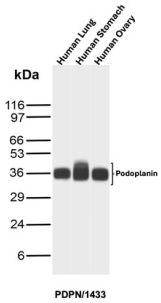
Product Images for Podoplanin (PDPN) (Lymphatic Endothelial & Mesothelial Marker) Antibody



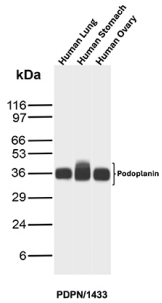
SDS-PAGE Analysis of Purified Podoplanin-Monospecific Mouse Monoclonal Antibody (PDPN/1433). Confirmation of Integrity and Purity of Antibody.



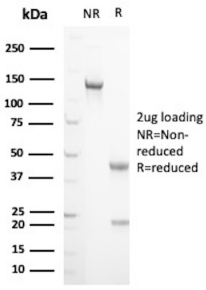
Analysis of Protein Array containing more than 19,000 full-length human proteinsusing Podoplanin-Monospecific Mouse Monoclonal Antibody (PDPN/1433) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD,Âôs) 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,Âôs) 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 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.



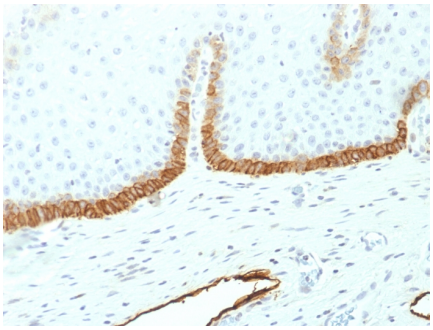
Western blot analysis of human lung, stomach and ovary tissue lysates using PDPN Mouse Monoclonal Antibody (PDPN/1433).



Western blot analysis of human lung, stomach and ovary tissue lysates using Podoplanin Mouse Monoclonal Antibody (PDPN/1433).



SDS-PAGE Analysis of Purified Podoplanin / PDPN Mouse Monoclonal Antibody (PDPN/1433). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Cervix stained with Podoplanin-Monospecific Mouse Monoclonal Antibody (PDPN/1433)

Specificity & Comments

It recognizes a muco-protein of 38-43kDa, which is identified as Podoplanin (PDPN). It localizes in stromal cells of peripheral lymphoid tissue and thymic epithelial cells. As a regulator of the lymphatic endothelium, podoplanin probably plays a role in maintaining the unique shape of podocytes. It is selectively expressed in lymphatic endotheliumas well as lymphoangiomas,Kaposi sarcomas,and in a subset of angiosarcomas with probable lymphatic differentiation. Recent studies have also shown podoplanin to be a highly sensitive and relatively specific marker for epithelioid mesothelioma. Therefore, it can be used in a panel to distinguish mesotheliomas or mesothelial cells from pulmonary carcinomas.

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

Angiogenesis, Dendritic Cell Marker, Endothelial Cell 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.