Datasheet for ABIN6939085

anti-Podoplanin antibody (AA 24-126)

3 Images

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Overview

Quantity:	100 µg
Target:	Podoplanin (PDPN)
Binding Specificity:	AA 24-126
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Podoplanin antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF), Immunohistochemistry (Formalin-fixed Sections) (IHC (f)), Coating (Coat)

Product Details

Immunogen:	Recombinant human Podoplanin (PDPN) protein fragment (around aa 24-126) (exact sequence is proprietary)
Clone:	PDPN-1433
Isotype:	IgG1
Specificity:	It recognizes a muco-protein of 38-43 kDa, 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

Product Details

	relatively specific marker for epithelioid mesothelioma. Therefore, it can be used in a panel to distinguish mesotheliomas or mesothelial cells from pulmonary carcinomas.
Cross-Reactivity (Details):	Human,
Purification:	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G.

Target Details

Target:	Podoplanin (PDPN)
Alternative Name:	PDPN (PDPN Products)
Background:	Aggrus, Glycoprotein 36 KD, Glycoprotein 36, gp36, GP38, GP40, HT1A1, hT1alpha1, hT1alpha2, Lung type I cell membrane associated glycoprotein, Lung type I cell membrane associated glycoprotein T1A 2, OTS8, PA2.26, Pdpn, Podoplanin, PSEC0003, PSEC0025, T1-alpha, T1A, TI1A, TIA2,Podoplanin (PDPN) (Lymphatic Endothelial & Mesothelial Marker) Cellular localisation: Cell Surface and Cytoplasmic
Molecular Weight:	38-43kDa
Gene ID:	10630, 468675
UniProt:	Q86YL7
Pathways:	Dicarboxylic Acid Transport

Application Details

Application Notes:	Positive Control: HeLa cells. Cervical or Lung Carcinoma. Known Application: ELISA (For coating, order antibody without BSA), Immunofluorescence (1-2 µg/mL), ,Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

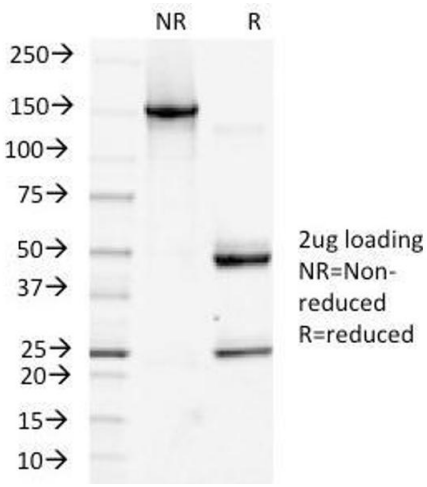
Handling

Concentration:	200 µg/mL
Buffer:	Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.
Preservative:	Sodium azide

Handling

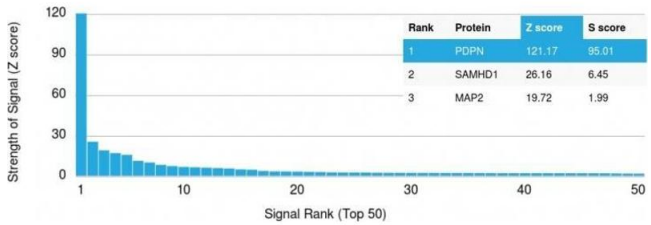
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.
Expiry Date:	24 months

Images



SDS-PAGE

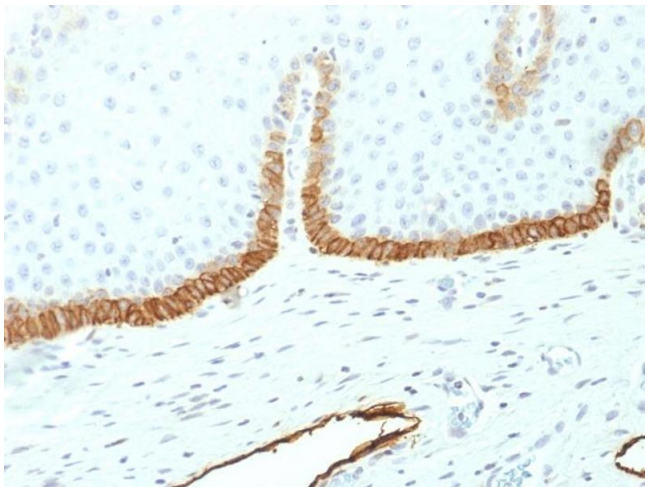
Image 1. SDS-PAGE Analysis Purified Podoplanin-Monospecific Mouse Monoclonal Antibody (PDPN/1433). Confirmation of Integrity and Purity of Antibody.



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using 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 (SDs) 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 SDs) 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.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Cervix stained with Podoplanin-Monospecific Mouse Monoclonal Antibody (PDPN/1433)