

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

## 36-2044: Anti-Podoplanin (PDPN) (Lymphatic Endothelial & Mesothelial Marker) Monoclonal **Antibody (Clone: PDPN/1433)**

Clonality: Monoclonal **Clone Name:** PDPN/1433 Application: ELISA,IHC,IF Reactivity: Human Gene: **PDPN** Gene ID: 10630 **Uniprot ID:** Q86YL7

Aggrus; Glycoprotein 36 KD; Glycoprotein 36; gp36; GP38; GP40; HT1A1; hT1alpha1;

hT1alpha2; Lung type I cell membrane associated glycoprotein; Lung type I cell membrane **Alternative Name:** 

associated glycoprotein T1A 2; OTS8; PA2.26; Pdpn; Podoplanin; PSEC0003; PSEC0025; T1-

alpha; T1A; TI1A; TIA2

Isotype: Mouse IgG1, kappa

Recombinant human Podoplanin (PDPN) protein fragment (around aa 24-126) (exact sequence Immunogen Information:

is proprietary)

## Description

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.

## **Product Info**

Amount:  $20 \mu g / 100 \mu g$ 

200µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with Content:

0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody Storage condition:

is stable for 24 months.

## **Application Note**

ELISA (For coating, order antibody without BSA); Immunofluorescence (1-2ug/ml); ,Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes 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);



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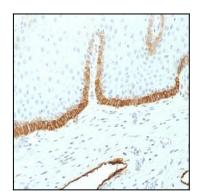


Fig.1: Formalin-fixed, paraffin-embedded human Cervix stained with Podoplanin-Monospecific Mouse Monoclonal Antibody (PDPN/1433)

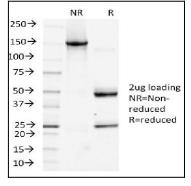


Fig. 2: SDS-PAGE Analysis Purified Podoplanin-Monospecific Mouse Monoclonal Antibody (PDPN/1433). Confirmation of Integrity and Purity of Antibody.

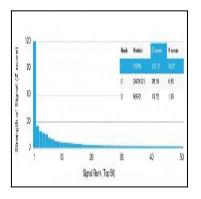


Fig. 3: Analysis of Protein Array containing more than 19,000 full-length human proteins using Podoplanin-Monospecific Mouse Monoclonal Antibody (PDPN/1433) Z-and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-lgG 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 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.