

# Podoplanin clone PDPN/1433

## Mouse Monoclonal Antibody

### Instructions for Use

**Specification:**

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 the maintaining the unique shape of podocytes. It is selectively expressed in lymphatic endotheliomas well as lymphoangiomas, Kaposi sarcomas and in the 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.

**Availability:**

Catalog No.	Contents	Volume
ILM1433-C01	Podoplanin	0,1 ml concentrate
ILM1433-C05	Podoplanin	0,5 ml concentrate
ILM1433-C1	Podoplanin	1,0 ml concentrate

**Intended use:** For Research Use Only

**Reactivity:** Human

**Human Gene Symbol:** PDPN

**Synonyms:** aggrus, Gp38, GP40, PA2.26, T1A-2

**Human Entrez Gene ID:** 10630

**Clone:** PDPN/1433

**Species of origin:** Mouse

**Isotype:** IgG1, Kappa

**Control Tissue:** HeLa cells, cervical or lung carcinoma

**Staining:** Cytoplasmic, membranous

**Presentation:** : Bioreactor Concentrate with 0.05% BSA and 0.05% Azide

**Application and suggested dilutions:**

Pre-treatment: Heat induced epitope retrieval in 10 mM citrate buffer pH6.0 for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution 1:200 - 1:400)

The optimal dilution for a specific application should be determined by the investigator.

**Note:** Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody-based detection is recommended.

**Storage & Stability:** Store at 2-8 °C. Do not use after expiration date printed on the vial.

**References:**

- 1) Farr, A.G., et al. 1992. Characterization and cloning of a novel glycoprotein expressed by stromal cells in T-dependent areas of peripheral lymphoid tissues. *J. Exp. Med.* 176: 1477-1482.
- 2) Schoppmann, S.F., et al. 2001. Lymphatic microvessel density and lymphovascular invasion assessed by anti-podoplanin immunostaining in human breast cancer. *Anticancer Res.* 21: 2351-2355.