

Mouse anti-Human Podoplanin Monoclonal Antibody

Podoplanin, Human, mAb LpMab13

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77821	Mouse	Human	Western Blot, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Podoplanin; Monoclonal Antibody; Human; mAb LpMab13; clone LpMab13; Aggrus; Glycoprotein 36; Gp36; PA2.26 antigen; T1-alpha; T1A; anti-Podoplanin antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	LpMab13
Form/Format	0.2 ml (100 ug/ml) 0.2 um filtered protein G purified antibody solution in PBS, containing 0.1% bovine serum albumin and 0.02 % sodium azide.
Applicable Applications for anti-Podoplanin antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), IA (Immunoassay), FCM/FACS (Flow Cytometry)
Immunogen	LN229/hPDPN (Ref.1 and Ref.2)
Preparation and Storage	Product should be stored at 4 degree C. Under recommended storage conditions, product is stable for at least one year.

ADDITIONAL INFORMATION

Related Product Information for anti-Podoplanin antibody	<p>Monoclonal antibody LpMab13 recognizes Podoplanin. Podoplanin (PDPN), also known under the name Aggrus, is highly expressed in various tumors (such as oral, lung, esophageal, brain) and in normal cells as lymphatic endothelial cells and podocytes. PDPN is a small type-I membrane glycoprotein with a large number of O-glycoside chains and therefore it belongs to mucin-type proteins. It can be found on the surface of many types of normal cells originating from various germ layers. It is present primarily on the endothelium of lymphatic vessels, type I pneumocytes and glomerular podocytes. Increased levels of podoplanin or its neo-expression have been found in numerous types of human carcinomas, but it is especially common in squamous cell carcinomas, such as cervical, larynx, oral cavity, skin and lung cancer. This small sialomucin is also seen on the surface of cancer-associated fibroblasts (CAFs) in lung adenocarcinomas, as well as in breast and pancreatic tumors. In most cancers, a high level of podoplanin expression, both in cancer cells, as well as in CAFs, is correlated with an increased incidence of metastasis to lymph nodes and shorter survival time of patients. Little is known about the biological role of podoplanin, however research carried out on mice with a knock-out gene of this glycoprotein shows that the presence of podoplanin determines normal development of lungs, the lymphatic system and heart. Podoplanin on cancer cells and CAFs seems to play an important role in the development and progression of various cancers. Podoplanin possesses in its N-terminal extracellular region 3 tandem repeats of platelet aggregation-stimulating domains (PLAGs). The O-glycosylation on Thr52 of human PDPN (hPDPN) is critical for the interaction of hPDPN with C-type lectin-like receptor-2 (CLEC-2), resulting in platelet aggregation. LpMab-13 recognized endogenous hPDPN of cancer cells, including glioblastoma, oral cancer, lung cancer, and malignant mesothelioma, and normal cells such as lymphatic endothelial cells and podocytes of kidney in Western blot, flow cytometry, and immunohistochemistry. LpMab-13 specifically binds to PLAG2/3, and recognized glycan-deficient hPDPN in flow cytometry, indicating that the interaction between LpMab-13 and hPDPN is independent of its glycosylation. The minimum epitope of LpMab-13 was identified as Ala42-Asp49 of hPDPN using Western blot and flow cytometry. LpMab-13 might serve to study hPDPN function.</p>
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/podoplanin-antibody-clone-lpmab13-western-blot-immunohistochemistry-immunofluorescence-immunoassay-flow-cytometry-elisa/77821>