

Rabbit anti-Mouse Podoplanin Monoclonal Antibody | anti-PDPN antibody

Anti-Podoplanin (MAP tag) [PMab-1]

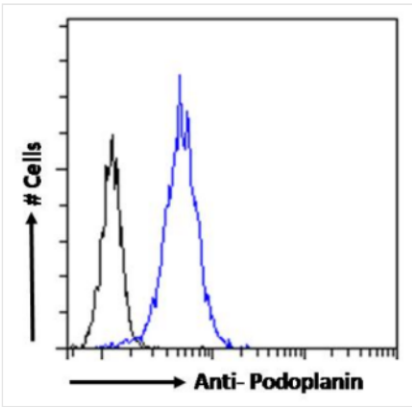
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72092	Rabbit	Mouse	Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

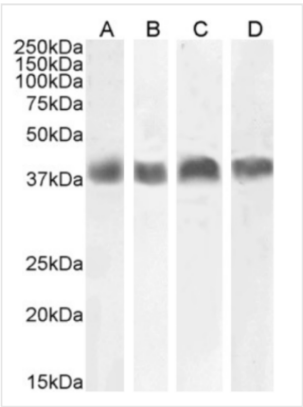
Podoplanin; Monoclonal Antibody; Anti-Podoplanin (MAP tag) [PMab-1]; PDPN; Aggrus; Glycoprotein 38; Gp38; OTS-8; Ots8; PA2.26 antigen; T1-alpha; T1A; Transmembrane glycoprotein E11; anti-PDPN antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG, kappa
Clone Number	PMab-1
Specificity	This antibody is specific for amino acids 38-51 (GDGMVPPGIEDKIT) of the platelet-aggregation-stimulating (PLAG) domain of mouse podoplanin (PDPN). This antibody, therefore, possesses high affinity and specificity for the MAP epitope tag (GDGMVPPGIEDK), which is derived from the PLAG domain of murine podoplanin. PDPN is a type I transmembrane protein that interacts with the platelet receptor C-type lectin-like receptor-2 (CLEC-2). PDPN is expressed by a wide variety of cells, including podocytes, lymphatic endothelial cells and type I alveolar cells. PDPN is also upregulated on certain cancer cells, where it mediates tumour-induced platelet aggregation by binding to CLEC-2 on platelets. Chihara (2018) associated Podoplanin with a co-inhibitory receptor in T-cell activation along with PD-1, TIM-3, LAG-3 and TIGIT.
Purity/Purification	Purified antibody. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-PDPN antibody	Blocking, IHC (Immunohistochemistry), WB (Western Blot), ELISA
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original rat format, for improved compatibility with existing reagents, assays and techniques.
PMID	23012488
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



FCM/FACS (Flow Cytometry)
Flow-cytometry using the anti-Podoplanin (MAP tag) antibody PMAb-1 (AAA72092) NIH3T3 cells were stained with anti-Fluorescein IgG antibody (4-4-20; isotype control, black line) or the rabbit IgG-chimeric version of PMAb-1 (, blue line) at a dilution of 1:100 for 1h at RT. After washing, bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



WB (Western Blot)
Western Blot using anti-Podoplanin (MAP tag) antibody PMAb-1 () Mouse thymus (A), mouse brain (B), NIH3T3 cells (C) and mouse kidney (D) lysates (35ug protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit IgG version of 1B4 at 0.01ug/ml, 0.1ug/ml, 0.001ug/ml and 0.003ug/ml, respectively, before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.

ADDITIONAL INFORMATION

Related Product Information for anti-PDPN antibody	Recombinant monoclonal antibody to Podoplanin (MAP tag). Recombinant Platform with variable regions (i.e. specificity) from the hybridoma PMAb-1. This antibody was raised by immunising rats with 14-residue synthetic peptide mpp3851, which corresponds to amino acids 38-51 (GDGMVPPGIEDKIT) of the platelet-aggregation-stimulating (PLAG) domain of mouse podoplanin. Spleen cells were then harvested, and fused to P3U1 cells to generate stable hybridomas.
Product Categories/Family for anti-PDPN antibody	Epitope tag ; Immunology ; costimulation
References	Kaji et al Immunohistochemical Examination of Novel Rat Monoclonal Antibodies against Mouse and Human Podoplanin Acta Histochem. Cytochem. 45 (4): 227-237, 2012. doi:10.1267/ahc.12008 Note on publication: Describes the original generation and characterisation of this antibody.

NCBI AND UNIPROT INFORMATION

NCBI GI #	595763348
NCBI GeneID	14726
NCBI Accession #	NP_001277751.1
NCBI GenBank Nucleotide #	NM_001290822.1
UniProt Accession #	Q62011; Q546R8; Q61612; A2A8J3
Molecular Weight	18,233 Da
NCBI Official Full Name	podoplanin isoform 2
NCBI Official Synonym Full Names	podoplanin
NCBI Official Symbol	Pdpn
NCBI Official Synonym Symbols	T1a; Gp38; OTS-8; T1alpha; RANDAM-2; T1-alpha
NCBI Protein Information	podoplanin
UniProt Protein Name	Podoplanin
UniProt Gene Name	Pdpn

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-pmab-1-immunohistochemistry-western-blot-elisa/72092>