

Podoplanin Recombinant Antibody | Pdpn recombinant antibody

Anti-Podoplanin (MAP tag) [PMab-1], Goat IgG, kappa

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72497	Goat	Mouse	Flow Cytometry, Functional Assay, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot, ELISA

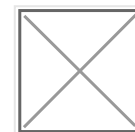
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

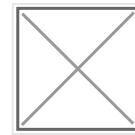
Host	Goat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Goat IgG kappa
Clone Number	PMab-1
Specificity	This antibody is specific for amino acids 38-51 (GDGMVPPGIEDKIT) of the platelet-aggregation-stimulating (PLAG) domain of mouse podoplanin (PDPN). This antibody, therefore, possesses high affinity and 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	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for Pdpn recombinant antibody	Blocking, FCM/FACS (Flow Cytometry), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Chimeric Use Statement	This chimeric goat antibody was made using the variable domain sequences of the original rat IgG2a format, for improved compatibility with existing reagents, assays and techniques.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



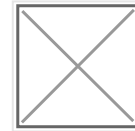
IF (Immunofluorescence)

Immunofluorescence staining of HEK293 cells with Anti-Podoplanin (MAPtag) (AAA72497) PMab-1. Immunofluorescence analysis of paraformaldehyde fixed HEK293 cells transfected with Podoplanin (MAPtag) expressed in HEK293 cells (B), permeabilized with 0.15% Triton, stained with the chimeric rabbit IgG version of PMab-1 (AAA72497) (1:200 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), shown.



ELISA

ELISA using PMab-1(AAA72497) and MultiTag protein 2. Binding curves of the mouse IgG1 chimeric version of the anti-MAP antibody PMab-1(AAA72497-1.1; edline) and isotype control to an ELISA plate coated with MultiTag protein 2. Fold serial dilution starting at 10,000 ng/mL. Anti-mouse IgG was used as a secondary antibody for detection at a dilution of 1:4,000.



WB (Western Blot)

Western Blot using anti-Podoplanin (MAPtag) antibody PMab-1(AAA72497). Mouse thymus (A), mouse brain (B), NIH3T3 cells (C) and mouse kidney (D) lysates (35 µg protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit IgG version of 1B6 rabbit secondary antibody. A primary incubation of 1 h was used and protein was detected by chemiluminescence.

ADDITIONAL INFORMATION

Related Product Information for Pdpn recombinant antibody	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.
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 N/A23012488 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
UniProt Synonym Gene Names	Gp38; Ots8; Gp38; T1A

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.