

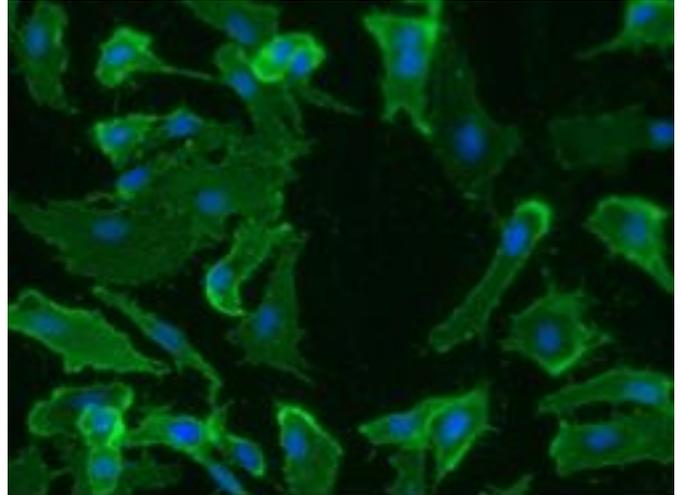
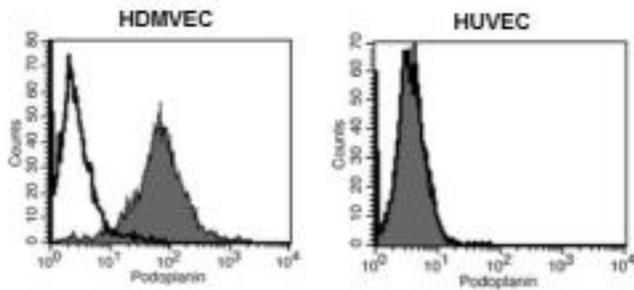
PDPN

Mouse Anti-Human Podoplanin (Clone 18H5) mAb

Catalog No.	CMV009	Quantity:	100 µg
Alternate Names:	Podoplanin, Aggrus, Glycoprotein 36, Gp36, PA2.26 antigen, T1-alpha, T1A		
Description:	<p>Podoplanin is a 36 kDa type I transmembrane sialoglycoprotein and member of the Podoplanin family. Podoplanin has three potential splice variants, the longest of which is represented by a 238 amino acid precursor. It contains an undefined signal sequence, a 22 aa transmembrane segment (aa 207-228) and a short cytoplasmic tail (aa 229-238). The ECD contains abundant Ser/Thr residues that could serve as potential O-linked glycosylation sites. The cytoplasmic tail contains putative sites for protein kinase C phosphorylation.</p> <p>Podoplanin is expressed on glomerular epithelial cells (podocytes), type I lung alveolar cells, lymphatic endothelial cells, and numerous tumors, including colorectal tumors, squamous cell carcinomas, testicular seminoma, and brain tumors. One study shows high expression of Podoplanin mRNA in placenta, lung, skeletal muscle, and heart, and weaker levels in brain, kidney, and liver. Podoplanin is the ligand for C-type lectin-like receptor 2 (CLEC2). Through its association with CLEC2, Podoplanin-induces platelet aggregation and tumor metastasis. Podoplanin is also necessary for lymphatic vessel formation, normal lung cell proliferation and alveolus formation at birth.</p>		
Source:	Purified from cell culture supernatant		
UniProt ID:	Q86YL7		
Immunogen:	MDCK cells stably expressing podoplanin (Gp36)		
Specificity:	Human		
Host:	Mouse		
Isotype:	IgG1		
Clone:	18H5		
Formulation:	Lyophilized from a PBS solution, pH 7.4, without preservative.		
Purification:	Protein G affinity chromatography		
Reconstitution:	Centrifuge vial before opening. Reconstitute in sterile water to a concentration of 0.1 -1.0 mg/ml.		
Applications:	<p>Western Analysis: suggested concentration 1-5 µg/ml</p> <p>Immunofluorescence: suggested concentration 1 µg/ml</p> <p>FACS: suggested concentration 5-10 µg/ml</p> <p>Immunohistochemistry: suggested concentration 6-30 µg/ml.</p>		
Storage & Stability:	The lyophilized antibody is stable for at least 1 year at -20°C to -80°C. After sterile reconstitution the antibody is stable at 2-8°C for up to 6 months. Frozen aliquots are stable for at least 6 months when stored at -20°C to -80°C. Addition of a carrier protein or 50% glycerol is recommended for frozen aliquots.		

FACS analysis with primary human dermal microvascular (HDMVEC) and umbilical vein (HUVEC) endothelial cells. The lymphatic endothelial cell marker Podoplanin is not expressed in the blood endothelial cells.

Immunofluorescence staining (green) of Podoplanin in primary HDLEC with anti-human Podoplanin (0,5µg/ml) and counter staining of nuclei with Dapi.



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

