Store at -20C

Podoplanin (D9D7) Rabbit mAb



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Applications: WB, IP, FC-L	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 36	Source/Isotype: Rabbit IgG	UniProt ID: #Q86YL7	Entrez-Gene Id: 10630	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Imr	Immunoprecipitation			1:200		
	Flo	Flow Cytometry (Live)			1:400		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sensitivity		Podoplanin (D9D7) Rabbit mAb recognizes endogenous levels of total podoplanin protein.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp31 of human podoplanin protein.						
Background	fami that cells pres have cand ofter pode expr	Podoplanin (aggrus, glycoprotein 36) is a single-pass transmembrane protein belonging to the type-1 family of sialomucin-like glycoproteins. Podoplanin was first described in the rat as a surface glycoprotein that regulated podocyte morphology (1). It is now commonly used as a marker of lymphatic endothelial cells, where its expression is associated with the process of lymphangiogenesis (2). Its role in this regard is presumably due to its putative involvement in regulating actin cytoskeleton dynamics (3). Research studies have shown that podoplanin expression is upregulated in a number of tumor types including colorectal cancers (4), oral squamous cell carcinomas (5), and germ cell tumors (6), with higher expression levels often associated with more aggressive tumors (7). Research studies have suggested a functional role for podoplanin in the stromal microenvironment of tumors. For example, it has been reported that podoplanin expression in cancer-associated fibroblasts (CAFs) is positively associated with a stromal environment that promotes cancer progression (8,9).					

Background References

- 1. Breiteneder-Geleff, S. et al. (1997) Am J Pathol 151, 1141-52.
- 2. Breiteneder-Geleff, S. et al. (1999) Am J Pathol 154, 385-94.
- 3. Wicki, A. et al. (2006) Cancer Cell 9, 261-72.
- 4. Omachi, T. et al. (2007) Cancer Lett 246, 167-72.
- 5. Feng, J.Q. et al. (2012) Oral Oncol 48, 848-852.
- 6. Mishima, K. et al. (2006) Acta Neuropathol 111, 563-8.
- 7. Raica, M. et al. Anticancer Res 28, 2997-3006.
- 8. Schoppmann, S.F. et al. (2012) Breast Cancer Res Treat 134, 237-44.
- 9. Ito, M. et al. (2012) Chest 142, 151-158.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation FC-L: Flow Cytometry (Live)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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1/1/24, 3:10 PM **Limited Uses**

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