

Podoplanin Polyclonal Antibody

Catalog NumberPA5-19150

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Goat / IgG	Tested Applications	
Class	Polyclonal	Western Blot (WB)	Dilution *1-3 µg/mL
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	Synthetic peptide sequence (EKVDGDTQTTVEKD) corresponding to the internal amino acids of PDPN		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.5 mg/mL		
Purification	Ammonium sulfate precipitation		
Storage buffer	TBS, pH 7.3, with 0.5% BSA		
Contains	0.02% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This antibody is predicted to react with canine based on sequence homology. This antibody is tested in Peptide ELISA: antibody detection limit dilution 1,000.

Background/Target Information

Podoplanin (PDPN, T1A, gp38, Aggrus) is a mucin type-1 glycoprotein with a 40-43 kDa molecular weight. Podoplanin is expressed in many tumors and normal cells, especially lymphatic epithelial cells and follicular DCs. Podoplanin localizes in stromal cells of peripheral lymphoid tissue and thymic epithelial cells. As a regulator of the lymphatic endothelium, podoplanin probably plays a role in maintaining the unique shape of podocytes. Podoplanin appears to serve as a ligand for CLEC-2 and expression is positively correlated with tumors expressing greater invasive and metastatic potential. Podoplanin is directly involved in cell migration, aids metastases formation and tumor cell invasion of tissue. Further, it has also been determined that podoplanin expression is induced through Src activation of Cas and, recently, there are indications of podoplanin presence on Th17 cells. Initial studies below indicate the presence of podoplanin on a small but distinct population of CD4+ cells from human PBMC. Dysfunction of the podoplanin protein has been linked to diseases such as lymphangioma and subglottis neoplasm. Podoplanin has also been proposed as a marker for lung injury due to the physiological function of the protein.

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Product Images For Podoplanin Polyclonal Antibody



Podoplanin Antibody (PA5-19150) in WB

Western blot analysis of Podoplanin using Podoplanin Polyclonal Antibody (Product # PA5-19150) (1 µg/mL) in staining of Human Cerebellum (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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