

Purified anti-human Podoplanin Antibody

Catalog# / Size	337001 / 25 µg 337002 / 100 µg
Clone	NC-08
Regulatory Status	RUO
Other Names	T1a, T1a2, gp36, gp38, gp40, Aggrus, PDPN, D2-40
Isotype	Rat IgG2a, λ
Description	Podoplanin is a 40-43 kD type-I transmembrane sialomucin-type glycoprotein, also known as T1a, gp36, gp38, gp40, and Aggrus. Originally detected on the surface of podocytes, further characterization showed podoplanin has a broad tissue distribution, including mesothelial cells, epithelial cells, follicular dendritic cells, and a variety of tumor cells. It has been reported that podoplanin is the ligand of CLEC2 and is involved in lymphatic vessel formation, platelet aggregation, and tumor metastasis. Podoplanin may serve as a useful marker for tumor diagnosis and prognosis.

Product Details

Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested ICC
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For immunofluorescent staining, it is recommended to use at 1.0 µg per 10 ⁶ cells in 100 µL volume or 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Additional reported applications (for the relevant formats) include: immunofluorescence ¹ .
Application References	1. Fujino N, <i>et al.</i> 2012. <i>Am. J. Respir. Cell. Mol. Biol.</i> 46:422. (FC, IF)
(PubMed link indicates BioLegend citation)	
Product Citations	1. Chyou S, <i>et al.</i> 2011. <i>J Immunol.</i> 187:5558. PubMed
RRID	AB_1595616 (BioLegend Cat. No. 337001) AB_1595511 (BioLegend Cat. No. 337002)

Antigen Details

Structure	40-43 kD type-I transmembrane sialomucin-type glycoprotein
Distribution	Broad tissue distribution, including mesothelial cells, epithelial cells, follicular dendritic cells, and many tumor cells

Function	Lymphatic vessel formation, tumor metastasis, platelet aggregation
Ligand/Receptor	CLEC2
Cell Type	Dendritic cells
Biology Area	Cancer Biomarkers, Cell Biology, Immunology, Neuroinflammation, Neuroscience, Neuroscience Cell Markers
Antigen References	<ol style="list-style-type: none"> 1. Raica M, <i>et al.</i> 2008. <i>Anticancer Res.</i> 28:2997. 2. Xie Q, <i>et al.</i> 2008. <i>Int. J. Clin. Exp. Pathol.</i> 1:276. 3. Ogasawara S, <i>et al.</i> 2008. <i>Hybridoma.</i> 27:259. 4. Kato Y, <i>et al.</i> 2003. <i>J. Bio. Chem.</i> 278:51599.
Gene ID	10630

Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human Podoplanin, PE anti-human Podoplanin, Alexa Fluor® 647 anti-human Podoplanin, Alexa Fluor® 488 anti-human Podoplanin, PE/Cyanine7 anti-human Podoplanin, Biotin anti-human Podoplanin, PerCP/Cyanine5.5 anti-human Podoplanin, Alexa Fluor® 594 anti-human Podoplanin, TotalSeq™-A0127 anti-human Podoplanin, APC/Cyanine7 anti-human Podoplanin, APC/Fire™ 750 anti-human Podoplanin, FITC anti-human Podoplanin, APC anti-human Podoplanin, PE/Dazzle™ 594 anti-human Podoplanin, TotalSeq™-C0127 anti-human Podoplanin, TotalSeq™-B0127 anti-human Podoplanin

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8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587