

Alexa Fluor® 488 anti-Podoplanin (Lymphatic Endothelial Marker) Antibody

Catalog# / Size	916611 / 25 tests 916612 / 100 tests
Clone	D2-40
Regulatory Status	RUO
Other Names	Podoplanin, T1-alpha, hT1alpha-1, hT1alpha-2, PA2.26 antigen, glycoprotein 36, lung type-I cell membrane-associated glycoprotein (T1A-2)
Isotype	Mouse IgG1, κ
Description	Podoplanin is expressed by a variety of normal cells, which include breast and prostate myoepithelial cells, follicular dendritic cells, basal keratinocytes of the skin and cervix (focal), type I pneumocytes, ependymal cells, and fetal cerebral germinal matrix cells. Podoplanin is a marker of lymphatic differentiation because it is expressed by normal human lymphatic endothelium, but not by vascular endothelium. It is diagnostically a useful marker for the evaluation of a variety of neoplasms, including Kaposi sarcoma mesothelioma, testicular germ cell tumors, and cutaneous sebaceous neoplasms.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	M2A protein derived from human germ cell tumors.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by intracellular flow cytometry using our Cyto-Fast™ Fix/Perm Buffer Set. For flow cytometric staining, the suggested use of this reagent is 5 µL per 106 cells in 100 µl volume. It is highly recommended that the reagent be titrated for optimal performance for each application. * Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses
Excitation Laser	Blue Laser (488 nm)
Additional Product Notes	For use in intracellular flow cytometry (ICFC), it is recommended to fix/permeabilize with Cyto-Fast™ Fix/Perm Buffer Set (Cat. No. 426803).

Application References

(PubMed link indicates
BioLegend citation)

1. Hamanaka T, *et al.* 2011. *Invest. Ophthalmol. Vis. Sci.* 52:8849. (IHC-P)
2. Choi WW, *et al.* 2005. *Mod. Pathol.* 18:143. (IHC-P)
3. Chu AY, *et al.* 2005. *Mod. Pathol.* 18:105. (IHC-P) [PubMed](#)
4. Yoon C, *et al.* 2008. *Blood* 112:1129. (ICC) [PubMed](#)
5. Schacht V, *et al.* 2005. *American Journal of Pathology* 166:913. (ELISA Detection, WB) [PubMed](#)
6. Marks A, *et al.* 1999. *British Journal of Cancer* 80:569.

RRID

AB_3720619 (BioLegend Cat. No. 916611)
AB_3720619 (BioLegend Cat. No. 916612)

Antigen Details

Structure	35 kD
Distribution	Membrane and plasma membrane
Function	May be involved in cell migration and/or actin cytoskeleton organization. When expressed in keratinocytes, induces changes in cell morphology with transfected cells showing an elongated shape, numerous membrane protusions, major reorganization of the actin cytoskeleton, increased motility and decreased cell adhesion. Required for normal lung cell proliferation and alveolus formation at birth. Induces platelet aggregation. Does not have any effect on folic acid or amino acid transport and does not function as a water channel or as a regulator of aquaporin-type water channels.
Interaction	Cytoskeletal signaling
Biology Area	Cancer Biomarkers, Cell Biology, Neuroinflammation, Neuroscience, Neuroscience Cell Markers
Gene ID	10630

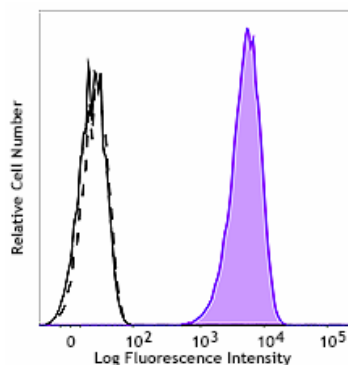
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-Podoplanin (Lymphatic Endothelial Marker), D2-40 Lymphatic Endothelial Marker Monoclonal Antibody, Alexa Fluor® 647 anti-Podoplanin (Lymphatic Endothelial Marker), Alexa Fluor® 488 anti-Podoplanin (Lymphatic Endothelial Marker), Alexa Fluor® 594 anti-Podoplanin/Lymphatic Endothelial Marker

Product Data



LN-319 cells (positive cell line, filled histogram) and HeLa cells (negative cell line, open histogram) were fixed and permeabilized using Cyto-Fast™ Fix/Perm Buffer Set (Cat. No. 426803) and intracellularly stained with Alexa Fluor® 488 anti-Podoplanin (Lymphatic Endothelial Marker) (clone D2-40) or Alexa Fluor® 488 Mouse IgG1, κ isotype control (dashed histogram) (Cat No. 400134).

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