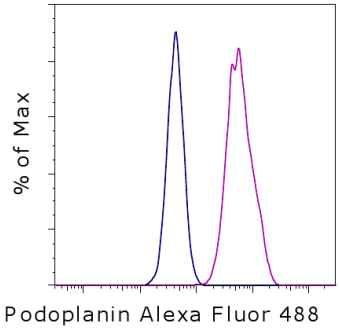
Anti-Mouse Podoplanin Alexa Fluor® 488

Catalog Number: 53-5381
Also known as: Pdpn
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of the TE-71 cell line with 0.25 ug of Golden Syrian Hamster IgG Isotype Control Alexa Fluor® 488 (cat. 53-4914) (blue histogram) or 0.25 ug of Anti-Mouse Podoplanin Alexa Fluor® 488 (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor 450® (cat. 65-0863), were used for analysis.

Product Information

Contents: Anti-Mouse Podoplanin Alexa Fluor® 488
REF **Catalog Number:** 53-5381
Clone: eBio8.1.1 (8.1.1)
Concentration: 0.5 mg/mL
Host/Isotype: Golden Syrian Hamster IgG

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial
Caution, contains Azide

Description

The 8.1.1 monoclonal antibody reacts with mouse podoplanin (T1a, gp38, aggrus), a 43 kDa transmembrane glycoprotein, named for its expression in kidney glomerular epithelial cells (podocytes). In addition, Podoplanin is expressed in epithelial and mesothelial cells such as intestinal epithelium, alveolar type I cells, podocytes, and mesothelium of the visceral peritoneum. It was also shown to be a potent marker for lymphatic endothelium. Podoplanin is also expressed by subcapsular epithelial cells of the murine thymus. Mice deficient in Podoplanin die at birth because of a respiratory defect and congenital lymphedema due to a failure in lymphatic pattern formation.

Applications Reported

This eBio8.1.1 (8.1.1) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBio8.1.1 (8.1.1) antibody has been tested by flow cytometric analysis of the TE-71 cell line. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Farr A, Nelson A, Hosier S. Characterization of an antigenic determinant preferentially expressed by type I epithelial cells in the murine thymus. J Histochem Cytochem. 1992 May;40(5):651-64. (**8.1.1**, mAb development, PubMed)

Farr AG, Berry ML, Kim A, Nelson AJ, Welch MP, Aruffo A. Characterization and cloning of a novel glycoprotein expressed by stromal cells in T-dependent areas of peripheral lymphoid tissues. J Exp Med. 1992 Nov 1;176(5):1477-82. (**8.1.1**, IHC, PubMed)

Mahtab EA, Wijffels MC, Van Den Akker NM, Hahurij ND, Lie-Venema H, Wisse LJ, Deruiter MC, Uhrin P, Zaujec J, Binder BR, Schalij MJ, Poelmann RE, Gittenberger-De Groot AC. Cardiac malformations and myocardial abnormalities in podoplanin knockout mouse embryos: Correlation with abnormal epicardial development. Dev Dyn.

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2008 Mar;237(3):847-57.

Related Products

53-4914 Golden Syrian Hamster IgG Isotype Control Alexa Fluor® 488 (n/a)
65-0863 Fixable Viability Dye eFluor® 450

Legal

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