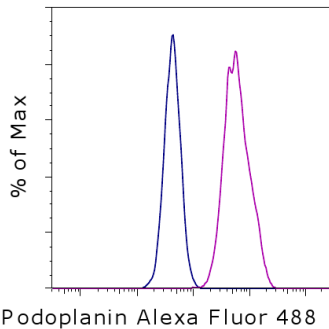


## Anti-Mouse Podoplanin Alexa Fluor<sup>®</sup> 488

**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<sup>®</sup> 488 (cat. 53-4914) (blue histogram) or 0.25 ug of Anti-Mouse Podoplanin Alexa Fluor<sup>®</sup> 488 (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor 450<sup>®</sup> (cat. 65-0863), were used for analysis.

### Product Information

**Contents:** Anti-Mouse Podoplanin Alexa Fluor<sup>®</sup> 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.

**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<sup>5</sup> to 10<sup>6</sup> 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, Schaliij 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<sup>®</sup> 488 (n/a)

65-0863 Fixable Viability Dye eFluor<sup>®</sup> 450

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