

# Podoplanin Monoclonal Antibody (eBio8.1.1 (8.1.1)), Alexa Fluor™ 488, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Rat, Hamster, Mouse
Host/Isotype	Syrian hamster / IgG
Recommended Isotype Control	Syrian Hamster IgG Isotype Control, Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio8.1.1 (8.1.1)
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1106990

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	10 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	7 Publications
Flow Cytometry (Flow)	0.5 µg/test	18 Publications

## Product Specific Information

**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.

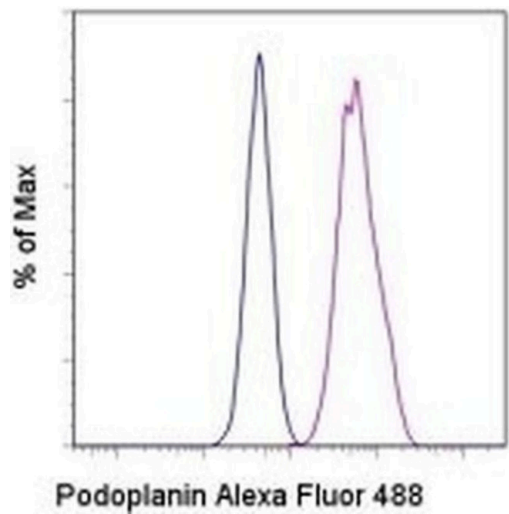
**Applications Reported:** This eBio8.1.1 (8.1.1) antibody has been reported for use in flow cytometric analysis.

**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>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For Podoplanin Monoclonal Antibody (eBio8.1.1 (8.1.1)), Alexa Fluor™ 488, eBioscience™**



**Podoplanin Antibody (53-5381-82) in Flow**  
Staining of the TE-71 cell line with 0.25 µg of Golden Syrian Hamster IgG Isotype Control Alexa Fluor® 488 (Product # 53-4914-80) (blue histogram) or 0.25 µg of Anti-Mouse Podoplanin Alexa Fluor® 488 (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor 450® (Product # 65-0863-14), were used for analysis.

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## Immunohistochemistry (10)

<p><b>Bioengineering &amp; translational medicine</b></p> <p><b>Vascularized lymph node transplantation successfully reverses lymphedema and maintains immunity in a rat lymphedema model.</b></p> <p>"Published figure using Podoplanin monoclonal antibody (Product # 53-5381-82) in Immunohistochemistry"</p> <p>Authors: Sakarya AH,Huang CW,Yang CY,Hsiao HY,Chang FC,Huang JJ</p>	<p><b>Year</b> 2022</p>
<p><b>Theranostics</b></p> <p><b>Dysregulation of interaction between LOX<sup>high</sup> fibroblast and smooth muscle cells contributes to the pathogenesis of aortic dissection.</b></p> <p>"Published figure using Podoplanin monoclonal antibody (Product # 53-5381-82) in Immunohistochemistry"</p> <p>Authors: Chen Y,Zhang T,Yao F,Gao X,Li D,Fu S,Mao L,Liu F,Zhang X,Xu Y,Deng J,Li W,Fan G,Xiao C,Chen Y,Wang L,Guo W,Zhou B</p>	<p><b>Year</b> 2022</p>

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## Immunohistochemistry (PFA fixed) (1)

<p><b>Theranostics</b></p> <p><b>CLEC-2-dependent platelet subendothelial accumulation by flow disturbance contributes to atherogenesis in mice.</b></p> <p>"Published figure using Podoplanin monoclonal antibody (Product # 53-5381-82) in Flow Cytometry"</p> <p>Authors: Tang C,Wang L,Sheng Y,Zheng Z,Xie Z,Wu F,You T,Ren L,Xia L,Ruan C,Zhu L</p>	<p><b>Year</b> 2022</p>
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## Immunocytochemistry (7)

<p><b>Theranostics</b></p> <p><b>CLEC-2-dependent platelet subendothelial accumulation by flow disturbance contributes to atherogenesis in mice.</b></p> <p>"Published figure using Podoplanin monoclonal antibody (Product # 53-5381-82) in Flow Cytometry"</p> <p>Authors: Tang C,Wang L,Sheng Y,Zheng Z,Xie Z,Wu F,You T,Ren L,Xia L,Ruan C,Zhu L</p>	<p><b>Year</b> 2022</p>
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## More applications with references on thermofisher.com

## Flow (18)

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