

# Podoplanin Monoclonal Antibody (NZ-1.3), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rat / IgG2a
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	NZ-1.3
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10736602

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	9 Publications

## Product Specific Information

**Description:** Podoplanin is a 40-kDa type I transmembrane sialomucin-like glycoprotein involved in platelet aggregation and cancer metastasis. This protein is expressed on lymphatic endothelial cells and follicular dendritic cells, as well as on many human cancers, including squamous cell carcinoma, glioblastoma, seminoma, and mesothelioma. Podoplanin expression has been demonstrated to be regulated by the Fos protein of the Activating Protein-1 (AP-1) transcription factor complex. Much of its functionality arises via interaction with its endogenous receptor, C-type lectin-like receptor-2 (CLEC-2).

This antibody has been reported to block the interaction between Podoplanin and CLEC-2.

**Applications Reported:** This NZ-1.3 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This NZ-1.3 antibody has been pre-titrated and tested by flow cytometric analysis of the U87 cell line. This can be used at 5 µL (0.25 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.

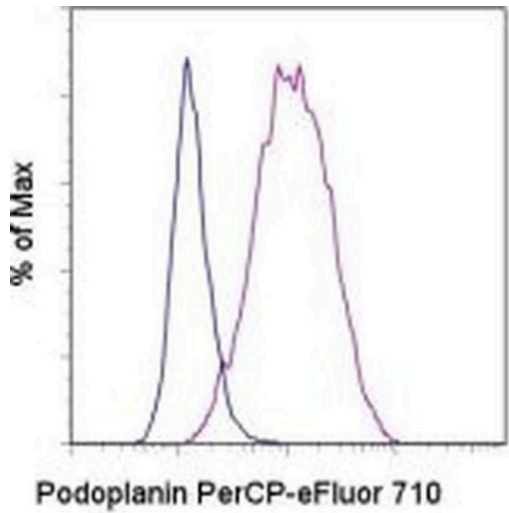
PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Podoplanin Monoclonal Antibody (NZ-1.3), PerCP-eFluor™ 710, eBioscience™



**Podoplanin Antibody (46-9381-42) in Flow**  
Staining of the U87 cell line with Rat IgG2a K Isotype Control PerCP-eFluor® 710 (Product # 46-4321-82) (blue histogram) or Anti-Human Podoplanin PerCP-eFluor® 710 (purple histogram). Total viable cells were used for analysis.

View more figures on thermofisher.cn

9 References

Flow Cytometry (9)

<p>iScience</p> <p><b>Reprogramming bone progenitor identity and potency through control of collagen density and oxygen tension.</b></p> <p>"Published figure using Podoplanin monoclonal antibody (Product # 46-9381-42) in Flow Cytometry"</p> <p>Authors: Al Hosni R,Bozec L,Roberts SJ,Cheema U</p>	<p>Year</p> <p>2022</p>
<p>PLoS pathogens</p> <p><b>Kaposi's sarcoma-associated herpesvirus vFLIP promotes MEndT to generate hybrid M/E state for tumorigenesis.</b></p> <p>"Published figure using Podoplanin monoclonal antibody (Product # 46-9381-42) in Flow Cytometry"</p> <p>Authors: Chen W,Ding Y,Liu D,Lu Z,Wang Y,Yuan Y</p>	<p>Year</p> <p>2021</p>

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