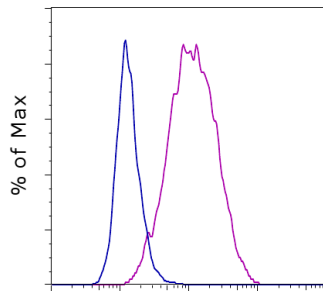


Anti-Human Podoplanin PerCP-eFluor[®] 710

Catalog Number: 46-9381

Also known as: PDPN

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of the U87 cell line with Rat IgG2a K Isotype Control PerCP-eFluor[®] 710 (cat. 46-4321) (blue histogram) or Anti-Human Podoplanin PerCP-eFluor[®] 710 (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human Podoplanin PerCP-eFluor[®] 710

REF **Catalog Number:** 46-9381

Clone: NZ-1.3

Concentration: 5 μ L (0.25 μ g)/test

Host/Isotype: Rat IgG2a

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

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 μ L (0.25 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10⁵ to 10⁸ 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.

Click here or contact eBioscience Technical Support for more information on eFluor[™] Organic Dyes including PerCP-eFluor[®] 710.

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References

Xie Q, Chen L, Fu K, Harter J, Young KH, Sunkara J, Novak D, Villanueva-Siles E, Ratech H. Podoplanin (d2-40): a new immunohistochemical marker for reactive follicular dendritic cells and follicular dendritic cell sarcomas.

Ogasawara S, Kaneko MK, Price JE, Kato Y. Characterization of anti-podoplanin monoclonal antibodies: critical epitopes for neutralizing the interaction between podoplanin and CLEC-2. *Hybridoma (Larchmt)*. 2008 Aug;27(4):323. (NZ-1.3, WB, FC, Pubmed)

Durchdewald M, Guinea-Viniegra J, Haag D, Riehl A, Lichter P, Hahn M, Wagner EF, Angel P, Hess J. Podoplanin is a novel fos target gene in skin carcinogenesis. *Cancer Res*. 2008 Sep 1;68(17):6877-83.

Related Products

46-4321 Rat IgG2a K Isotype Control PerCP-eFluor® 710 (eBR2a)

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