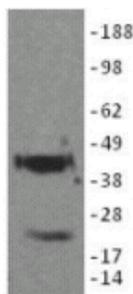


Anti-Human Podoplanin Purified

Catalog Number: 14-9381

Also Known As: PDPN

RUO: For Research Use Only



U87 cell lysate prepared under reducing conditions was resolved on SDS-PAGE then immunoblotted with 5 µg/mL Anti-Human Podoplanin Purified. Bands were visualized using Anti-Rat IgG HRP.

Product Information

Contents: Anti-Human Podoplanin Purified

REF Catalog Number: 14-9381

Clone: NZ-1.3

Concentration: 0.5 mg/ml

Host/Isotype: Rat IgG2a

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

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 immunoprecipitation, immunoblotting (WB), and immunohistology staining of paraffin embedded tissue sections.

Applications Tested

This NZ-1.3 antibody has been tested by immunoblot analysis of U87 cells. This can be used at 1-5 µg per ml. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Xie Q, Chen L, Fu K, Harter J, Young KH, Sunkara J, Novak D, Villanueva-Siles E, Ratch 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

12-0219 Anti-Human CD21 PE (HB5)

14-4321 Rat IgG2a K Isotype Control Purified

17-0409 Anti-Human CD40 APC (5C3)

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