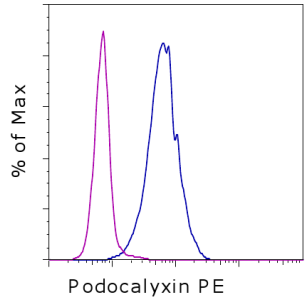
Anti-Human Podocalyxin PE

Catalog Number: 12-8873
Also known as: Gp200
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of the NTERA cell line with Mouse IgG2a K Isotype Control PE (cat. 12-4724) (blue histogram) or Anti-Human Podocalyxin PE (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human Podocalyxin PE
REF **Catalog Number:** 12-8873
Clone: B34D1.3
Concentration: 5 uL (0.5 ug)/test
Host/Isotype: Mouse IgG2a, kappa

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.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial

Description

The monoclonal antibody B34D1.3 recognizes human podocalyxin, a protein expressed on undifferentiated human embryonic stem cells (ES), embryonic carcinoma cells (EC), and embryonic germ cells (EG). Podocalxyin is a heavily glycosylated cell adhesion protein with homology to CD34 and endoglycan. It was first identified on kidney podocytes, and then found to be upregulated in a variety of human cancers such as breast and prostate cancer. Like other stem cell-specific markers, the epitope recognized by the B34D1.3 antibody is lost upon cell differentiation.

The B34D1.3 antibody recognizes the ectodomain of podocalyxin, which is a different epitope from the Tra-1-60 and Tra-1-81 monoclonal antibodies. While Tra1-60 has been found to react with a sialidase-sensitive epitope, the epitope recognized by Tra1-81 has not been fully defined.

Applications Reported

This B34D1.3 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This B34D1.3 antibody has been pre-titrated and tested by flow cytometric analysis of the NTERA cell line. This can be used at 5 µL (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 10^5 to 10^8 cells/test.

References

Natunen S, Satomaa T, Pitkänen V, Salo H, Mikkola M, Natunen J, Otonkoski T, Valmu L. The binding specificity of the marker antibodies Tra-1-60 and Tra-1-81 reveals a novel pluripotency associated type 1 lactosamine epitope.Glycobiology. 2010 Dec 15.

Nielsen JS, McNagny KM. The role of podocalyxin in health and disease. J Am Soc Nephrol. 2009 Aug;20(8):1669-76. Epub 2009 Jul 2. Review.

Rodríguez RB, Butta N, Larrucea S, Alonso S, Parrilla R. Production and characterization of murine monoclonal

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antibodies against human podocalyxin. Tissue Antigens. 2006 Nov;68(5):407-17. (**B34D1.3**, WB, IHC-F, FC)

Schopperle WM, DeWolf WC. The TRA-1-60 and TRA-1-81 human pluripotent stem cell markers are expressed on podocalyxin in embryonal carcinoma. Stem Cells. 2007 Mar;25(3):723-30.

Related Products
12-4724 Mouse IgG2a K Isotype Control PE

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