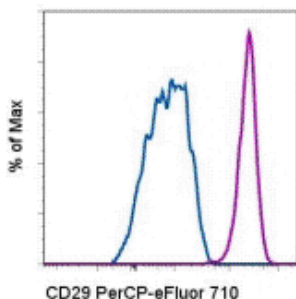


Anti-Human CD29 (Integrin beta 1) PerCP-eFluor® 710

Catalog Number: 46-0299

Also Known As: Fibronectin Receptor Beta

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



Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (cat. 46-4714) (blue histogram) or Anti-Human CD29 PerCP-eFluor® 710 (purple histogram). Cells in the monocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD29 (Integrin beta 1) PerCP-eFluor® 710

REF **Catalog Number:** 46-0299

Clone: TS2/16

Concentration: 5 µL (0.125 µg)/test

Host/Isotype: Mouse IgG1, 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

Contains sodium azide

Description

The TS2/16 monoclonal antibody reacts with human CD29, also known as integrin beta 1, an approximately 130 kDa single-pass transmembrane glycoprotein. CD29 complexes with one of nine integrin alpha subunits to form the very late antigen (VLA) subfamily of adhesion molecules. Integrin heterodimers containing CD29 are involved in cell-cell and cell-matrix adhesion. CD29 is expressed broadly on lymphocytes and monocytes, with lower levels of expression on granulocytes. The TS2/16 antibody has been found to possess activating activity for beta 1 integrins.

Applications Reported

This TS2/16 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This TS2/16 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 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 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.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

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Hemler ME, Sanchez-Madrid F, Flotte TJ, Krensky AM, Burakoff SJ, Bhan AK, Springer TA, Strominger JL. Glycoproteins of 210,000 and 130,000 M.W. on activated T cells: cell distribution and antigenic relation to components on resting cells and T cell lines. J Immunol. 1984 Jun;132(6):3011-8. (TS2/16, IP, IHC, PubMed)

Sanchez-Madrid F, Krensky AM, Ware CF, Robbins E, Strominger JL, Burakoff SJ, Springer TA. Three distinct antigens associated with human T-lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. Proc Natl Acad Sci U S A. 1982 Dec;79(23):7489-93. (TS2/16, IP, FA, PubMed)

Related Products

46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.8.1)

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