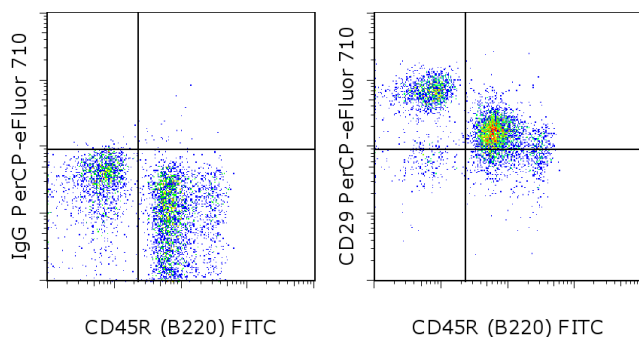


Anti-Mouse/Rat CD29 (Integrin beta 1) PerCP-eFluor® 710

Catalog Number: 46-0291

Also known as: Fibronectin Receptor Beta

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



Staining of C57Bl/6 bone marrow cells with Anti-Human/Mouse CD45R (B220) FITC (cat. 11-0452) and 0.125 µg of Armenian Hamster IgG Isotype Control PerCP-eFluor® 710 (cat. 46-4888) (left) or 0.125 µg of Anti-Mouse/Rat CD29 (Integrin beta 1) PerCP-eFluor® 710 (right). Cells in the small/lymphocyte scatter population were used for analysis.

Product Information

Contents: Anti-Mouse/Rat CD29 (Integrin beta 1) PerCP-eFluor® 710
Catalog Number: 46-0291
Clone: eBioHMB1-1 (HMB1-1)
Concentration: 0.2 mg/mL
Host/Isotype: Armenian Hamster IgG

REF



LOT



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

Contains sodium azide

Description

The eBioHMB1-1 monoclonal antibody reacts with mouse and rat CD29 (integrin beta 1), a 110-120 kDa member of the beta integrin family expressed by leukocytes, endothelial, smooth muscle and epithelial cells. CD29 binds non-covalently with the alpha integrins CD49a-f to form the VLA-1 through VLA-6 complexes, as well as with CD51. These alpha-beta integrin heterodimers are capable of mediating a variety of cellular responses including adhesion, trafficking, proliferation and differentiation. All integrins which include CD29 bind to extracellular matrix proteins including collagen, laminin, fibronectin and vitronectin, whereas some CD29-containing integrins can also interact with cellular receptors such as VCAM-1 and MadCAM-1.

Applications Reported

This eBioHMB1-1 (HMB1-1) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBioHMB1-1 (HMB1-1) antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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.

Not for further distribution without written consent.

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References

Noto K, Kato K, Okumura K, Yagita H. Identification and functional characterization of mouse CD29 with a mAb. Int Immunol. 1995 May;7(5):835-42. (**HMbeta1-1**, mAb development, IP, FA, PubMed)

Ridger VC, Wagner BE, Wallace WA, Hellewell PG. Differential effects of CD18, CD29, and CD49 integrin subunit inhibition on neutrophil migration in pulmonary inflammation. J Immunol. 2001 Mar 1;166(5):3484-90. (**HMbeta1-1**, FA, PubMed)

Related Products

11-0452 Anti-Human/Mouse CD45R (B220) FITC (RA3-6B2)

46-4888 Armenian Hamster IgG Isotype Control PerCP-eFluor® 710 (eBio299Arm)