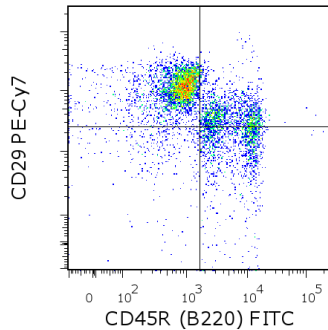


## Anti-Mouse/Rat CD29 (Integrin beta 1) PE-Cyanine7

**Catalog Number:** 25-0291

**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 0.5  $\mu$ g of Anti-Mouse/Rat CD29 (Integrin beta 1) PE-Cyanine7. Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse/Rat CD29 (Integrin beta 1) PE-Cyanine7

**REF** **Catalog Number:** 25-0291

**Clone:** eBioHMb1-1 (HMb1-1)

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Armenian Hamster IgG

**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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium azide**



**LOT**



### 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 0.5  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Light sensitivity:** This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100  $\mu$ L cell sample + 100  $\mu$ L 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.

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## Anti-Mouse/Rat CD29 (Integrin beta 1) PE-Cyanine7

**Catalog Number:** 25-0291

**Also known as:** Fibronectin Receptor Beta

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

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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)

25-4888 Armenian Hamster IgG Isotype Control PE-Cyanine7 (eBio299Arm)

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