

## Product datasheet for **SM2210FT**

### **Itgb1 Hamster Monoclonal Antibody [Clone ID: HM beta 1-1]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	HM beta 1-1
<b>Applications:</b>	FC
<b>Recommended Dilution:</b>	Flow Cytometry (Neat-1/10): Use 10 µl of the suggested working dilution to label 10e6 cells in 100 µl. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.
<b>Reactivity:</b>	Mouse, Rat
<b>Host:</b>	Hamster
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Purified mouse VLA-4 antigen. Spleen cells from immunised Armenian hamsters were fused with cells of the P3U1 mouse myeloma cell line.
<b>Specificity:</b>	This antibody recognises the integrin beta 1 subunit (CD29). Clone HM beta 1.1 is reported to inhibit beta 1 integrin mediated adhesion. We recommend the use of SM2210LE for this purpose.
<b>Formulation:</b>	PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC State: Liquid purified IgG fraction. Label: Fluorescein Isothiocyanate Isomer 1
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Affinity Chromatography on Protein G.
<b>Conjugation:</b>	FITC
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	integrin beta 1 (fibronectin receptor beta)



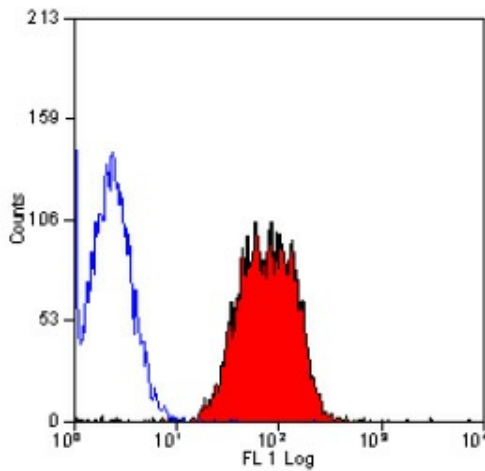
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Database Link: [Entrez Gene 16412 Mouse P09055](#)

**Background:** CD29 is a 110KD cell surface glycoprotein that is widely expressed by a variety of cells including all leucocytes. CD29 forms non-covalent bonds with the integrin alpha subunits, including CD51 and CD49a-f, to form heterodimers. The ligands for these heterodimers include collagen, fibronectin, laminin and vascular adhesion molecule-1. In the immune system beta 1 integrins play an important role in cell adhesion, migration, activation and differentiation.

**Synonyms:** Fibronectin receptor subunit beta, Integrin VLA-4 subunit beta, ITGB1, FNRB, MDF2, MSK12

### Product images:



Staining of mouse peripheral blood lymphocytes with HAMSTER ANTI MOUSE CD29:FITC.