

Product datasheet for **SM2210R**

Itgb1 Hamster Monoclonal Antibody [Clone ID: HM beta 1.1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	HM beta 1.1
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of neat-1/5 diluted antibody to label 10e6 cells in 100 µl. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by appropriate blocking.
Reactivity:	Mouse, Rat
Host:	Hamster
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Purified mouse VLA-4 antigen. Spleen cells from immunised Armenian hamsters were fused with cells of the P3U1 mouse myeloma cell line.
Specificity:	This antibody recognizes the Integrin beta 1 subunit (CD29). Clone HM beta 1.1 is reported to inhibit beta 1 integrin mediated adhesion. (Ref.1) We recommend the use of SM2210LE for this purpose.
Formulation:	PBS, pH 7.4 containing 0.09% Sodium Azide as preservative, 1% BSA and 5% Sucrose Label: PE State: Liquid purified IgG fraction Label: R. Phycoerythrin (RPE)
Purification:	Affinity Chromatography on Protein G.
Conjugation:	PE
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	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