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Product datasheet for SM2210FX

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: 1/25 - 1/100; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl; The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.
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 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.
Formulation:	PBS, pH7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: FITC State: Liquid purified IgG Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. 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

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