

Monoclonal Antibody to CD29 / Integrin beta-1 - FITC

Alternate names:	FNRB, Fibronectin receptor subunit beta, ITGB1, Integrin VLA-4 subunit beta, MDF2, MSK12
Catalog No.:	SM2210FX
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
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.
Uniprot ID:	P09055
NCBI:	NP_034708.1
GeneID:	16412
Host / Isotype:	Hamster / IgG
Clone:	HM beta 1.1
Immunogen:	Purified mouse VLA-4 antigen. Spleen cells from immunised Armenian hamsters were fused with cells of the P3U1 mouse myeloma cell line.
Format:	State: Liquid purified IgG Purification: Affinity chromatography on Protein G Buffer System: PBS, pH7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	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. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
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. Species: Mouse, Rat. Other species not tested.
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. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

General References: 1. Noto, K. et al. (1995) Identification and functional characterization of mouse CD29 with a mAb. *Int. Immunol.* 7: 835-842.

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