

## Monoclonal Antibody to CD29 / Integrin beta-1 - FITC

<b>Alternate names:</b>	FNRB, Fibronectin receptor subunit beta, ITGB1, Integrin VLA-4 subunit beta, MDF2, MSK12
<b>Catalog No.:</b>	SM2210F
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">P09055</a>
<b>NCBI:</b>	<a href="#">NP_034708.1</a>
<b>GeneID:</b>	<a href="#">16412</a>
<b>Host / Isotype:</b>	Hamster / IgG
<b>Clone:</b>	HM beta 1.1
<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>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Purification:</b> Affinity Chromatography on Protein G. <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</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. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<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>Species:</b> Mouse and Rat. Other species not tested.

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

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

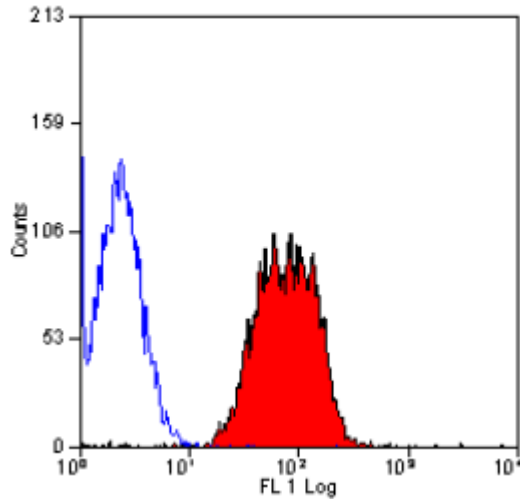
Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)

**Storage:**

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.  
Shelf life: one year from despatch.

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

**Pictures:**



Staining of mouse peripheral blood lymphocytes with HAMSTER ANTI MOUSE CD29:FITC (SM2210F).

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