

## Monoclonal Antibody to CD49d / ITGA4 - FITC

<b>Alternate names:</b>	CD49 antigen-like family member D, Integrin alpha-4, Integrin alpha-IV, VLA-4, VLA4
<b>Catalog No.:</b>	SM1129F
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	CD49d, also known as integrin alpha 4 subunit, associates with either integrin beta 1 (to form VLA-4) or beta 7. CD49d is expressed by lymphocytes, monocytes, eosinophils and thymocytes. VLA-4 mediates cell adhesion to VCAM-1 and fibronectin.
<b>Uniprot ID:</b>	<a href="#">P13612</a>
<b>NCBI:</b>	<a href="#">NP_000876.3</a>
<b>GeneID:</b>	<a href="#">3676</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	44H6
<b>Immunogen:</b>	HOON pre-B leukaemia cell line
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Purification:</b> Protein G affinity Chromatography. <b>Buffer System:</b> PBS, pH 7.2, with 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	<b>Flow Cytometry:</b> Use 10 µl of neat antibody to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognizes CD49d. Clone 44H6 is reported to induce homotypic aggregation (see Ref.2). <b>Species:</b> Human. Other species not tested.
<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. Shelf life: one year from despatch.
<b>General References:</b>	1. Quackenbush, E.J. and Letarte, J. (1985). Identification of several cell surface proteins of non-T, non-B Acute lymphoblastic Leukaemia by using monoclonal antibodies. J. Immunol. 134: 1276-1285. 2. Letarte, M., Seehafer, J.G., Greaves, A., Masellis-Smith, A. and Shaw, A.R.E. (1992). Homotypic aggregation of pre-B Leukaemic cell lines by antibodies to VLA Integrins correlates with their expression of CD9.

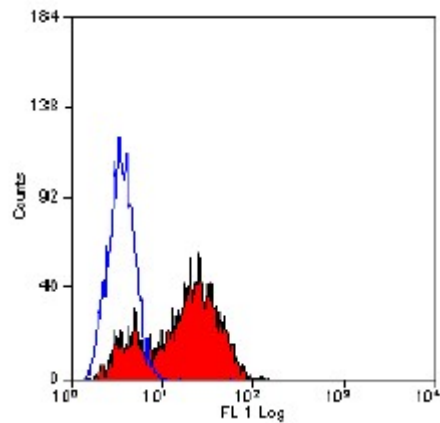
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Leukemia 7(1): 93-103.

Pictures:



Staining of human peripheral blood lymphocytes with Mouse anti-Human CD49d -FITC (SM1129F).

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