

Monoclonal Antibody to CD49f / ITGA6 - FITC

Alternate names:	CD49 antigen-like family member F, Integrin alpha-6, VLA-6, VLA6
Catalog No.:	SM038F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	CD49f is a 120kD cell surface glycoprotein that can form distinct complexes with CD29 (VLA beta-chain), resulting in the VLA-6 (alpha-6 beta-1) complex, which is expressed on human platelets, or with the beta-4 integrin resulting in the alpha-6 beta-4 complex which is expressed on various human epithelial cells.
Uniprot ID:	P23229
NCBI:	NP_000201.2
GeneID:	3655
Host / Isotype:	Rat / IgG2a
Clone:	NKI-GoH3
Immunogen:	BALB/c mouse mammary tumour cells. Spleen cells from immunised Sprague-Dawley rats were fused with cells of the SP2/0 mouse myeloma cell line.
Format:	State: Liquid purified IgG Purification: Affinity chromatography on Protein G Buffer System: PBS containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow cytometry: Use 10 ul of neat antibody to label 10e6 cells in 100 ul. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises CD49F (VLA-6 alpha chain). Clone NKI-GoH3 reacts with platelets, megakaryocytes, T lymphocytes and common Acute Lymphoblastic Leukaemia cells (alpha-6 beta-1). In immunohistology the monoclonal antibody reacts with epithelial cells of a variety of tissues, peripheral nerves, microvascular endothelial cells, placenta cyto- and syncytiotrophoblasts. VLA-6 is an important mediator of cell binding to laminin. Studies suggest that clone GoH3 specifically blocks the binding of cells to the E8 fragment of laminin. Species: Human, Cynomolgus Monkey, Pig, Dog, Human, Mouse, Sheep. 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.

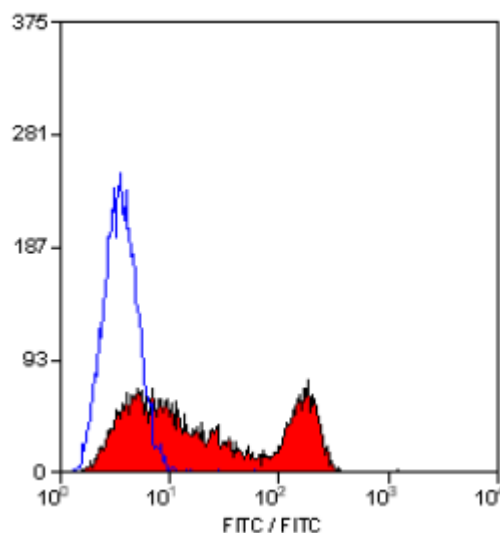
For research and in vitro use only. Not for diagnostic or therapeutic work.

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. Soligo, D. et al. (1989) Immunohistochemical reactivity on bone marrow and tissues of anti-VLA antibodies in the platelet panel, in *Leucocyte Typing IV: White Cell Differentiation Antigens*. Edited by Knapp, W. et al. Oxford University Press p1029-1032.
 2. Workshop of the 4th International Conference on Human Leucocyte Differentiation Antigens Vienna (1989) Workshop number p 055. Oxford University Press.
 3. Sonnenberg, A. et al. (1986) Development of mouse mammary gland: identification of stages in differentiation of luminal and myoepithelial cells using monoclonal antibodies and polyvalent antiserum against keratin. *Histochem. Cytochem.* 34: 1037-1046.
 4. Sonnenberg, A. et al. (1987) A complex of platelet glycoproteins Ic and IIa identified by a rat monoclonal antibody *J. Biol. Chem.* 262: 10376-10383.
 5. Helmer, M. et al. (1988) Multiple very late antigen (VLA) heterodimers on platelets. Evidence for distinct VLA-2, VLA-5 (fibronectin receptor), and VLA-6 structures *J. Biol. Chem.* 263: 7660-7665.
 6. Galkowska, H. et al. (1996) Reactivity of antibodies directed against human antigens with surface markers on canine leukocytes. *Vet. Immunol. Immunopathol.* 53: 329 - 334.
 7. Sonnenberg, A. et al. (1988) Laminin receptor on platelets is the integrin VLA-6. *Nature.* 336: 487 - 489.
 8. Sonnenberg, A. et al. (1990) Integrin recognition of different cell-binding fragments of laminin (P1, E3, E8) and evidence that alpha 6 beta 1 but not alpha 6 beta 4 functions as a major receptor for fragments E8. *J. Cell. Biol.* 110: 2145 - 2155.
 9. Sonnenberg, A., et al. (1988) Identification and characterization of a novel antigen complex on mouse mammary tumour cells using a monoclonal antibody against platelet glycoprotein Ic. *J. Biol. Chem.* 263: 14030 - 14038.
 10. Yoshino, N. et al. (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of Cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. *Exp. Anim.* 49 (2): 97-110
 11. Sonneberg, A. et al. (1990) The alpha 6 beta 1 (VLA-6) and alpha 6 beta 4 protein complexes: tissue distribution and biochemical properties. *J. Cell Sci.* 96: 207 - 217.

Pictures:



Staining of human peripheral blood lymphocytes with RAT ANTI HUMAN/MOUSE CD49f:FITC

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