

Monoclonal Antibody to CD51 / ITGAV - FITC

Alternate names:	Integrin alpha-V, MSK8, VNRA, Vitronectin receptor subunit alpha
Catalog No.:	AM08161FC-N
Quantity:	100 Tests
Background:	Integrin alpha V chain interacts with the integrin beta 3 subunit/CD61 to form the alpha-V-beta-3 heterodimer/vitronectin receptor. It is expressed on endothelial cells, some activated leukocytes, NK cells, macrophages, neutrophils, and platelets. Integrin alpha V also forms heterodimers with the integrin beta 1, beta 5, beta 6, and beta 8 subunits. Alpha-V-beta-3 is an activation dependent receptor for platelet attachment and spreading on vitronectin and other matrix components. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions. Alpha-V/beta-6 binds to foot-and-mouth disease virus (FMDV) VP1 protein and acts as a receptor for this virus. By similarity, Alpha-V/beta-6 binds to coxsackievirus A9 and coxsackievirus B1 capsid proteins and acts as a receptor for these viruses. It also mediates leukocyte-endothelial cell adhesion via interaction with CD31. (Ref.1-4)
Uniprot ID:	P06756
NCBI:	9606
Host / Isotype:	Mouse / IgG1
Clone:	13C2
Format:	State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: 10 µL/10e6 cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes CD51. Species: Human. Other species not tested.
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 Readings:	1. Knapp, W., B. Dorken, W.R. Gilks, E.P. Rieber, R.E. Schmidt, H. Stein, A.E.G.K. Von dem Borne, eds. 1989. Leukocyte Typing IV: White Cell Differentiation Antigens, Oxford University Press, Oxford. 2. Barclay, A.N., M.H. Brown, S.K.A. Law, A.J. McKnight, M.G. Tomlinson, and P.A. van der Merwe, eds. 1997. The Leukocyte Antigens Facts Book, 2nd Edition, CD51 Section,

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
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Academic Press, New York, p. 271.

3. Keiffer, N., and D.R. Phillips. 1990. Annu. Rev. Cell. Biol. 6:329.

4. Ginsberg, M.H., D. Xiaoping, T.E. O'Toole, J.C. Loftus, and E.F. Plow. 1993. Thromb. Haemost. 70:87.

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