

Monoclonal Antibody to CD49e / ITGA5 - FITC

Alternate names:	CD49 antigen-like family member E, FNRA, Fibronectin receptor subunit alpha, Integrin alpha-5, Integrin alpha-F, VLA-5, VLA5
Catalog No.:	AM08047FC-S
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	<p>Integrin alpha 5 belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This gene encodes the integrin alpha 5 chain. Alpha chain 5 undergoes post translational cleavage in the extracellular domain to yield disulfide linked light and heavy chains that join with beta 1 to form a fibronectin receptor. In addition to adhesion, integrins are known to participate in cell surface mediated signalling. It is expressed on thymocytes, activated T cells, mast cells, and a variety of mouse cell lines.</p> <p>Soluble 5H10-27 antibody inhibits VLA-5-mediated functions in vitro. (Ref.1,2-4,6) Immobilized 5H10-27 has also been demonstrated to co-stimulate the proliferative response of CD8+ T cells to plate-bound anti-CD3 monoclonal antibody. (Ref.3)</p>
Uniprot ID:	P11688
NCBI:	10090
Host / Isotype:	Rat / IgG2a
Clone:	5H10-27
Immunogen:	C57BL/6 x A/J F1 mouse mast cell line MC/9. (Ref.1)
Format:	<p>State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative. Label: FITC – Fluorescein Isothiocyanate Isomer 1</p>
Applications:	<p>Flow Cytometry: < / = 1 µg/10e6 cells. (Ref.1) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>This antibody is specific to alpha-5 subunit of the integrin alpha-5 beta-1 Fibronectin Receptor. It reacts with the alpha-5 chain (VLA-5) of the CD49e/CD29 heterodimeric Fibronectin Receptor. (Ref.1-5) Species: Mouse. Other species not tested.</p>
Storage:	<p>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.</p>

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 Readings:**
1. Kinashi, T., and T.A. Springer. 1994. *Blood Cells* 20:25.
 2. Halvorson, M.J., and J.E. Coligan. 1995. *J. Immunol.* 155:4567.
 3. Rich, S., N. van Nood, and H.-M Lee. 1996. *J. Immunol.* 157:2916.
 4. Uhlenkott, C.E., J.C. Huijzer, D.J. Cardeiro, C.A. Elstad, and G.G. Meadows. 1996. *Clin. Exp. Metastasis* 14:125.
 5. Hemler, M.E. 1990. *Annu. Rev. Immunol.* 8:365.
 6. Schultz, J.F., and D.R. Armant. 1995. *J. Biol Chem.* 270:11522.
 7. Southern Biotechnology Associates, Inc. Unpublished observations.