

## Monoclonal Antibody to CD49e / ITGA5 - FITC

<b>Alternate names:</b>	CD49 antigen-like family member E, FNRA, Fibronectin receptor subunit alpha, Integrin alpha-5, Integrin alpha-F, VLA-5, VLA5
<b>Catalog No.:</b>	AM08047FC-N
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	<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>
<b>Uniprot ID:</b>	<a href="#">P11688</a>
<b>NCBI:</b>	<a href="#">10090</a>
<b>Host / Isotype:</b>	Rat / IgG2a
<b>Clone:</b>	5H10-27
<b>Immunogen:</b>	C57BL/6 x A/J F1 mouse mast cell line MC/9. (Ref.1)
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative. <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	<b>Flow Cytometry:</b> < / = 1 µg/10e6 cells. (Ref.1) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	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) <b>Species:</b> Mouse. 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.

**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)



- 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.