

Product datasheet for **AM08047PU-N**

CD49e / ITGA5 Rat Monoclonal Antibody [Clone ID: 5H10-27]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5H10-27
Applications:	FC, FN, IHC
Recommended Dilution:	Flow Cytometry. (Ref.1) Immunohistochemistry on Frozen Sections: (Ref.7) Functional Assays: <i>In vitro</i> blocking of adhesion. (Ref.1,2-4,6) T-cell co-stimulation. (Ref.3)
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	C57BL/6 x A/J F1 mouse mast cell line MC/9. (Ref.1)
Specificity:	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) 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)
Formulation:	100 mM Borate Buffered Saline, pH 8.2. No preservatives or amine-containing buffer salts added. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
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.
Stability:	Shelf life: one year from despatch.



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Gene Name: integrin alpha 5 (fibronectin receptor alpha)

Database Link: [Entrez Gene 16402 Mouse P11688](#)

Background: 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.

Synonyms: Integrin alpha-5, Fibronectin receptor subunit alpha, Integrin alpha-F, VLA-5, VLA5, FNRA