

Product datasheet for **AM08047RP-N**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	5H10-27
Applications:	FC
Recommended Dilution:	Flow Cytometry: $< / = 0.3 \mu\text{g}/10\text{e}6 \text{ cells}$. (Ref.1)
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)
Formulation:	PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. Label: PE State: Liquid purified Ig fraction. Label: R-Phycoerythrin
Concentration:	lot specific
Conjugation:	PE
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin alpha 5 (fibronectin receptor alpha)
Database Link:	Entrez Gene 16402 Mouse P11688



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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.

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)

Synonyms:

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