

## Product datasheet for **SM2100F**

### CD49e / ITGA5 Rat Monoclonal Antibody [Clone ID: MFR5 (5H10)]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MFR5 (5H10)
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry:</b> Use 10 µl of neat antibody to label 10e6 cells in 100 µl. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Mouse MC/9 cell line.
Specificity:	This antibody recognises Integrin alpha 5 (CD49e), which associates with the beta 1 integrin (CD29) to form the fibronectin receptor CD49e/CD29 (VLA-5). Clone MFR5(5H10) has been reported to block CD49e mediated function. We recommend the use of SM2100LE for this purpose.
Formulation:	PBS containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer Label: FITC State: Liquid purified IgG fraction Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	FITC
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.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin alpha 5 (fibronectin receptor alpha)



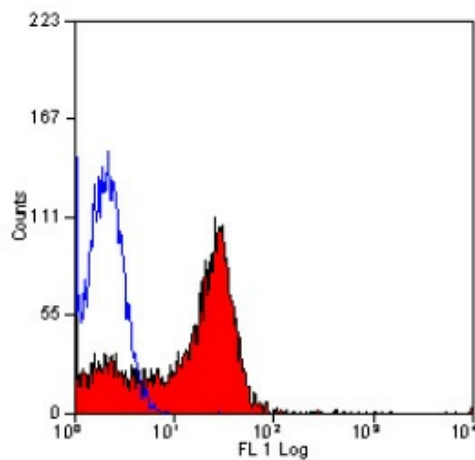
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Database Link: [Entrez Gene 16402 Mouse P11688](#)

**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

### Product images:



Staining of Mouse peripheral blood lymphocytes with Rat Anti Mouse CD49e antibody FITC conjugated (SM2100F).