

Product datasheet for **SM1140F**

Integrin alpha 6 (ITGA6) Mouse Monoclonal Antibody [Clone ID: 450-30A]

Product data:

Product Type:	Primary Antibodies
Clone Name:	450-30A
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of neat antibody to label 10e6 cells in 100 µl.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Alpha 6 beta 4 Integrin purified from A431 cells
Specificity:	This antibody recognizes the human VLA-6 cell surface antigen, also known as the α6 Integrin and as CD49f. CD49f is expressed by platelets, weakly by monocytes and by a subset of lymphocytes.
Formulation:	PBS, pH 7.4 Label: FITC State: Liquid purified IgG fraction Stabilizer: 1% BSA Preservative: 0.09% Sodium Azide Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	FITC
Storage:	Store 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 subunit alpha 6
Database Link:	Entrez Gene 3655 Human P23229



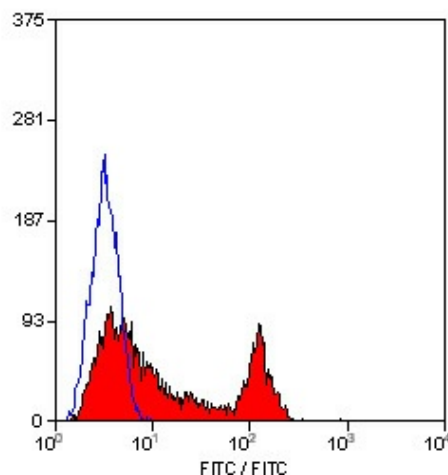
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Background:

Integrins are important extracellular matrix (ECM) receptor proteins located on cell surfaces. They are heterodimers composed of an alpha and a beta transmembrane glycoprotein subunit. Around twenty two different integrins (different alpha/ beta subunit combinations) are found in nature. Integrins are generally present in high concentrations at the cell surface, but, unlike most other cell surface receptors, they bind ligands with very low affinity. Due to their weak individual binding, integrins need to cluster and bind in groups in order to effectively bind the ECM. Integrins bind many different ligands including laminin. Each integrin is made up of a large N terminal extracellular domain that binds the ECM ligand and a small C terminal cytoplasmic domain that mediates interaction with the actin cytoskeleton and signaling function. Integrin alpha 6 complexes are receptors for laminins, which are components of basement membranes. Integrin alpha 6 complexes may play an important role in embryogenesis.

Synonyms:

Integrin alpha-6, VLA-6, VLA6

Product images:


Staining of human peripheral blood lymphocytes with Mouse Anti Human CD49f.