

Product datasheet for **SM1134PT**

CD49b (ITGA2) Mouse Monoclonal Antibody [Clone ID: 16B4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	16B4
Applications:	ELISA, FC, IHC, IP, WB
Recommended Dilution:	ELISA: 10 µg/ml. Western Blot. Flow Cytometry: 30 µg/ml; Immunoprecipitation: 25-50 µg/ml. Immunohistochemistry on Frozen Sections: 30-40 µg/ml. Immunohistochemistry on Paraffin Sections (requires antigen retrieval using heat treatment prior to staining of paraffin sections).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified human beta1 preparation from HT1080 fibrosarcoma cell extract. Spleen cells from immunised BALB/c mice were fused with cells of the X63/Ag8.653 mouse myeloma cell line.
Specificity:	This antibody is identified as capable of immunoprecipitating a non-reducible alpha subunit from I125 surface labelled cell line extract. It is confirmed as specific to the alpha 2 subunit by relative expression of antigen on various cell lines by FACS, and its recognition of affinity purified alpha 2 beta 1 in dot blots.
Formulation:	PBS, pH 7.4 containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
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.



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Stability: Shelf life: one year from despatch.

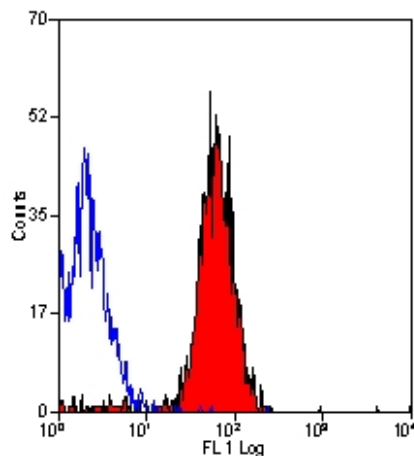
Gene Name: integrin subunit alpha 2

Database Link: [Entrez Gene 3673 Human P17301](#)

Background: CD49b, a member of the integrin family of extracellular matrix and cell adhesion molecules, is the integrin alpha-2 chain. CD49b associates noncovalently with CD29, the integrin beta-1 subunit, to form the heterodimer integrin $\alpha 2\beta 1$ that binds laminin and collagen. It is expressed on B and T lymphocytes, NK cells, monocytes, platelets, fibroblasts and long-term cultured T cells. CD49b/CD29 mediates the Mg^{++} dependent adhesion of platelets to collagen. It may also be utilized by fibroblasts for the reorganization of the collagen matrix during wound healing.

Synonyms: Integrin alpha-2, ITGA-2, VLA-2 alpha, VLA2, GPIa, Collagen Receptor

Product images:



Staining of Human peripheral blood platelets with Mouse anti Human CD49b antibody [SM1134P].