

## Product datasheet for **SM1739P**

### CD49b (ITGA2) Mouse Monoclonal Antibody [Clone ID: 31H4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	31H4
Applications:	ELISA, FC, IP
Recommended Dilution:	Flow cytometry: 1/25 - 1/50; Immunoprecipitation: 25 - 50 µg/ml. ELISA: 10 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified human beta1 integrin 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:	31H4 has been identified as being capable of immunoprecipitating the integrin $\alpha 2$ subunit from cell lines surface labelled with $^{125}I$ . It has been confirmed specific to $\alpha 2$ by relative expression of antigen on various cell lines by flow cytometry, and recognition of affinity purified $\alpha 2\beta 1$ in dot blots.
Formulation:	PBS, pH7.4 containing 0.09% Sodium Azide State: Purified State: Liquid purified IgG
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.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit alpha 2



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

**Background:** Integrins are heterodimeric cell surface receptors composed of alpha and beta subunits, which mediate cell-cell and cell-extracellular matrix attachments. They are responsible for adhesion of platelets and other cells to collagens, modulation of collagen and collagenase gene expression, force generation and organization of newly synthesized extracellular matrix. Aberrant integrin expression has been found in many epithelial tumours. Changes in integrin expression have been shown to be important for the growth and early metastatic capacity of melanoma cells.

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