

## Product datasheet for **SM1125PS**

### CD49b (ITGA2) Mouse Monoclonal Antibody [Clone ID: AK7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	AK7
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of 1/50-1/100 diluted antibody to label 10e6 cells in 100 µl. Immunohistochemistry on Frozen Sections: 1/500-1/1000. Recommended Positive Control Tissue: Tonsil.
Reactivity:	Human, Monkey
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Spleen cells from immunised mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity:	This antibody recognises the integrin alpha 2 subunit, which is 160kD cell surface antigen expressed by NK cells and a small subset of T-cells. This antibody inhibits cell attachment to collagen.
Formulation:	PBS 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.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit alpha 2
Database Link:	<a href="#">Entrez Gene 3673 Human P17301</a>



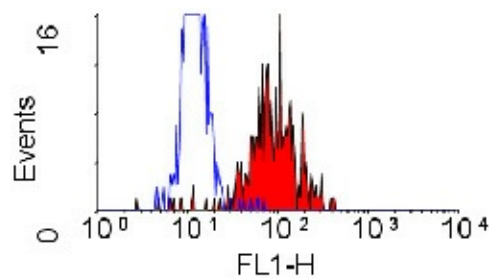
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**Background:**

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

**Product images:**

Staining of human peripheral blood monocytes with Mouse Anti Human CD49b.