

## Product datasheet for **SM2092PS**

### **Itga4 Rat Monoclonal Antibody [Clone ID: 9C10 (MFR.4.B)]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	9C10 (MFR.4.B)
<b>Applications:</b>	FC, IHC
<b>Recommended Dilution:</b>	Flow Cytometry: 1/10 - 1/5; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl. Immunohistochemistry on frozen sections. Removal of sodium azide is recommended prior to use in functional assays.
<b>Reactivity:</b>	Mouse
<b>Host:</b>	Rat
<b>Isotype:</b>	IgG2a
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Mouse LyD9 haematopoietic progenitor cells. Spleen cells from immunised Lewis rats were fused with cells of the mouse P3X63Ag8.653 myeloma cell line.
<b>Specificity:</b>	This antibody recognises alpha 4 integrin (CD49d). Clone 9C10 (MFR4.B) is reported to significantly inhibit binding of CD49d to CD106 but only when used in combination with clone R1-2.
<b>Formulation:</b>	PBS, pH7.4 containing 0.09% Sodium Azide State: Purified State: Liquid purified IgG
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Affinity chromatography on Protein G
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	integrin alpha 4
<b>Database Link:</b>	<a href="#">Entrez Gene 16401 Mouse Q00651</a>

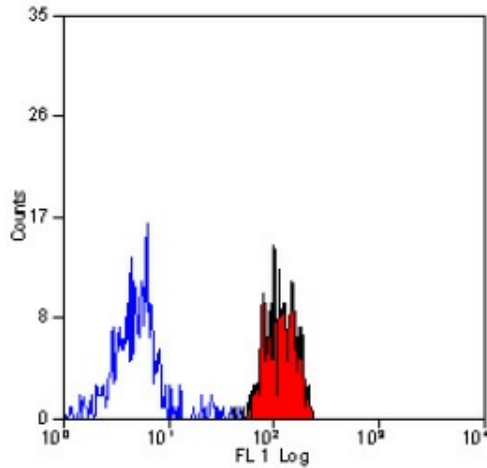


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**Background:** CD49d is a 150kD glycoprotein that can associate with either beta 1 integrin (CD29) or beta 7 integrin to form heterodimers CD49d/CD29 (VLA-4) and alpha4/beta7 (LPAM-1) respectively. CD49d is expressed on most lymphocytes, granulocytes, monocytes and thymocytes. The primary ligands for CD49d are CD106 (VCAM-1), fibronectin and MAdCAM-1.

**Synonyms:** Integrin alpha-4, Integrin alpha-IV, VLA-4, VLA4

**Product images:**



Staining of mouse peripheral blood lymphocytes with RAT ANTI MOUSE CD49d.