

## Product datasheet for **SM2198PS**

### Integrin alpha 4 (ITGA4) Mouse Monoclonal Antibody [Clone ID: HP2/1]

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Clone Name:           | HP2/1  |
| Applications:         | FC, IHC, IP  |
| Recommended Dilution: | Flow cytometry: 1 µg/5 x 10e cells.<br>Immunohistochemistry on frozen sections.<br>Immunoprecipitation.  |
| Reactivity:           | Bovine, Human, Monkey, Porcine, Rat  |
| Host:                 | Mouse  |
| Isotype:              | IgG1   |
| Clonality:            | Monoclonal   |
| Immunogen:            | JM leukaemia line.<br>Spleen cells from immunised BALB/c mice were fused with cells of the X63 Ag8.653 myeloma cell line.  |
| Specificity:          | This antibody recognises the 80kD alpha chain of VLA-4. Reacts with monocytes, T cells, B cells, thymocytes and Langerhans cells.<br>Can be used in basic studies of VLA-4 mediated adhesion and its interaction with the VCAM-1 structure. HP2/1 inhibits cell binding to soluble VCAM-1. |
| Formulation:          | PBS containing 0.09% Sodium Azide as preservative.<br>State: Purified<br>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.<br>Avoid repeated freezing and thawing.  |
| Stability:            | Shelf life: one year from despatch.  |
| Gene Name:            | integrin subunit alpha 4   |



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**Database Link:** [Entrez Gene 3676 Human P13612](#)

**Background:** ITGA4 encodes integrin alpha chain 4. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. Unlike other integrin alpha chains, alpha 4 neither contains an I-domain, nor undergoes disulfide-linked cleavage. Although alpha 4 is variably cleaved to yield two unlinked chains, this cleavage is unnecessary for integrin assembly and function. Alpha 4 combines with beta 1 (ITGB1) on T-cells to form the integrin very late (activation) antigen 4 (VLA-4) that can bind to the extracellular matrix molecules fibronectin or thrombospondin, and is also a ligand for the cell surface molecule vascular cell adhesion molecule 1 (VCAM-1). In addition, alpha 4 combines with beta 7 to form the lymphocyte homing receptor known as LPAM-1 (lymphocyte Peyer Patch adhesion molecule 1). Integrins are also known to participate in cell-surface mediated signalling.

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