

Product datasheet for **SM2198P**

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. Immunohistochemistry on frozen sections. Immunoprecipitation.
Reactivity:	Bovine, Human, Monkey, Porcine, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	JM leukaemia line. 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. 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. 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 4



[View online »](#)

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