

SM1129LE

Monoclonal Antibody to CD49d / ITGA4 - Low Endotoxin

Alternate names:	CD49 antigen-like family member D, Integrin alpha-4, Integrin alpha-IV, VLA-4, VLA4
Quantity:	0.5 mg
Concentration:	1.0 mg/ml
Background:	CD49d is a 150kD molecule, which may be cleaved to 80kD and 70kD fragments and is expressed by lymphocytes, monocytes, eosinophils and thymocytes. VLA-4 mediates cell adhesion to VCAM-1 and fibronectin.
Uniprot ID:	P13612
NCBI:	NP_000876.3
GeneID:	3676
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10LE (for use in human samples)
Clone:	44H6
Immunogen:	HOON pre-B leukaemia cell line. Spleen cells from immunised BALB/c mice were fused with cells of the SP2.0-Ag14 mouse myeloma cell line.
Format:	State: Liquid purified IgG Purification: Ion exchange chromatography Buffer System: PBS, pH7.2
Applications:	Flow cytometry: 1/50 - 1/100. Functional assays. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises CD49d, also known as integrin alpha 4, which associates with either integrin Beta 1 (to form VLA-4) or Beta 7. Species: Human. Other species not tested.
Add. Information:	Endotoxin Level: less than 0.01 EU/µg
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Quackenbush EJ, Letarte M. Identification of several cell surface proteins of non-T, non-B acute lymphoblastic leukemia by using monoclonal antibodies. J Immunol. 1985 Feb;134(2):1276-85. PubMed PMID: 315538. 2. Letarte M, Seehafer JG, Greaves A, Masellis-Smith A, Shaw AR. Homotypic aggregation of pre-B leukemic cell lines by antibodies to VLA integrins correlates with their expression of CD9. Leukemia. 1993 Jan;7(1):93-103. PubMed PMID: 7678118.

Pictures:

Staining of human peripheral blood lymphocytes with anti human CD49d (SM1129LE).

