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Product datasheet for SM037LE

Integrin alpha 4 (ITGA4) Rat Monoclonal Antibody [Clone ID: PS/2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	PS/2
Applications:	FC, FN, IHC, IP
Recommended Dilution:	<u>Flow Cytometry</u> : Use 10μl of 1/50-1/100 diluted antibody to label 10e6 cells in 100 μl. <u>Immunohistochemistry on frozen sections</u> . <u>Immunoprecipitation</u> . <u>Functional assays</u> .
Reactivity:	Human, Mouse
Host:	Rat
lsotype:	lgG2b
Clonality:	Monoclonal
Specificity:	This antibody recognises alpha 4 integrin (CD49d). Clone PS/2 has also been reported to block the binding of CD49d to its ligands.
Formulation:	PBS, pH 7.4 State: Low Endotoxin State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit alpha 4
Database Link:	<u>Entrez Gene 3676 Human</u> <u>P13612</u>



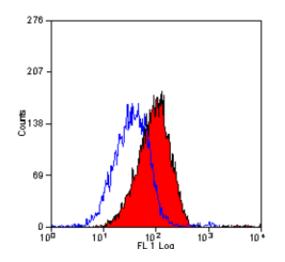
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GRIGENE Integrin alpha 4 (ITGA4) Rat Monoclonal Antibody [Clone ID: PS/2] – SM037LE

Background:Integrin α4 (also called CD49d) is a ~150 kDa protein that possesses a large extracellular
domain involved in ligand binding, a single transmembrane domain, and an intracellular
regulatory domain possessing multiple sites for phosphorylation. Integrin α4 forms
heterodimers with integrins β1 and β7. Integrin α4 is expressed on leukocytes and leukocyte
precursors, neural crest cells, and developing skeletal muscles and is essential for
embryogenesis, hematopoiesis, and immune responses. The presence of integrin α4
promotes cell migration and inhibits cell spreading and contractility. Integrin α4 function has
been implicated in the pathogenesis of multiple diseases including asthma, rheumatoid
arthritis, Crohn's disease, ulcerative colitis, hepatitis C, and multiple sclerosis, and therefore,
modulation of integrin α4 function has become an important target for drug discovery.
Phosphorylation of the serine 988 residue on the integrin α4 cytoplasmic tail inhibits its
interaction with the focal adhesion complex-associated protein paxillin, and modulates its
effects on cell motility and spreading.

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

Product images:



Staining of mouse peripheral blood lymphocytes with RAT ANTI MOUSE CD49d: LOW ENDOTOXIN

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