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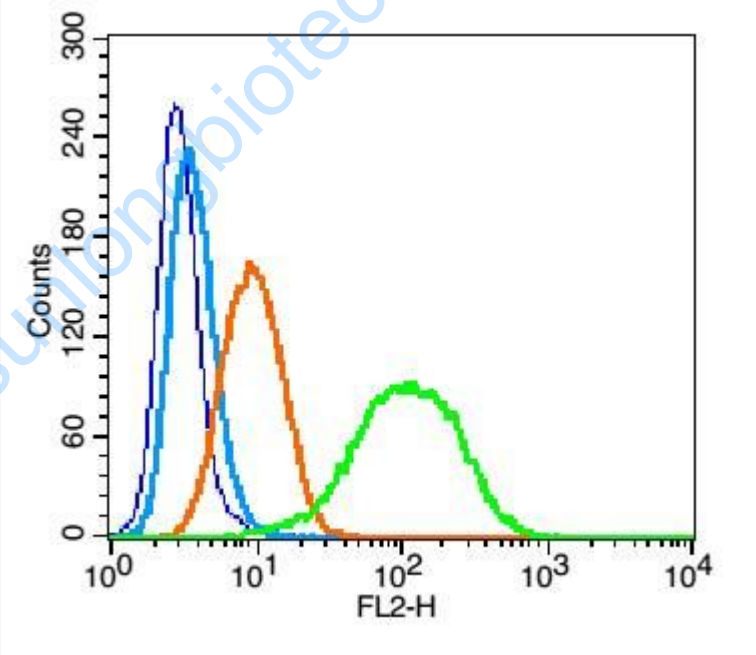
Rabbit Anti-Integrin alpha 4 antibody

SL0641R

Product Name:	Integrin alpha 4
Chinese Name:	整合素α4抗体
Alias:	Alpha 4 subunit of VLA 4 receptor;ITG-α4: Antigen CD49D; CD 49d ; CD49d; CD49d antigen; CDw49d; IA4; Integrin alpha IV; ITGA 4; ITGA4; LPAM23; MGC90518; Very Late Activation Antigen 4; Very Late Activation Protein 4 Receptor Alpha 4 Subunit; VLA 4; VLA4; integrin alpha-4; ITA4_HUMAN;
文献引用 PubMed :	**Specific References(1)**|SL0641R has been referenced in 1 publications. **[IF=3.53]**Lee, Tao-Chen, et al. "Comparison of Surface Markers between Human and Rabbit Mesenchymal Stem Cells." PLOS ONE 9.11 (2014): e111390.**Rabbit**. PubMed:25380245
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000Flow-Cyt=1μg/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	111kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Integrin alpha 4:551-650/1032<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year

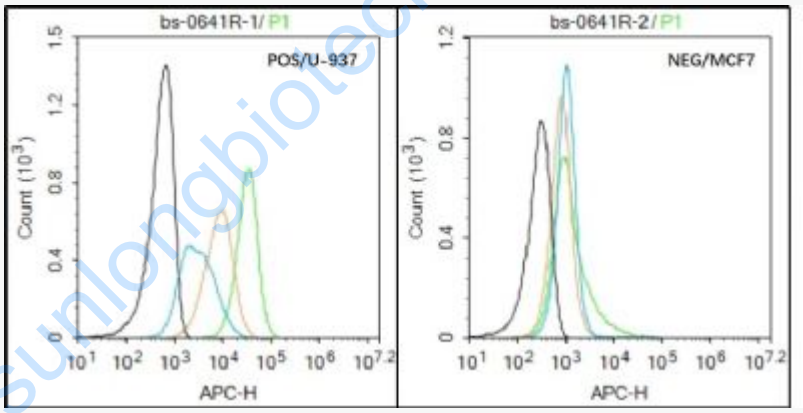
	when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Integrin alpha 4 (also called CD49d) is a 150 kDa protein that possesses a large extracellular domain involved in ligand binding, a single transmembrane domain, and an intracellular regulatory domain possessing multiple sites for phosphorylation. Integrin alpha 4 forms heterodimers with integrins beta 1 and beta 7. Integrin alpha 4 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 alpha 4 promotes cell migration and inhibits cell spreading and contractility. Integrin alpha 4 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 alpha 4 function has become an important target for drug discovery. **Function:** Integrins alpha-4/beta-1 (VLA-4) and alpha-4/beta-7 are receptors for fibronectin. They recognize one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. They are also receptors for VCAM1. Integrin alpha-4/beta-1 recognizes the sequence Q-I-D-S in VCAM1. Integrin alpha-4/beta-7 is also a receptor for MADCAM1. It recognizes the sequence L-D-T in MADCAM1. On activated endothelial cells integrin VLA-4 triggers homotypic aggregation for most VLA-4-positive leukocyte cell lines. It may also participate in cytolytic T-cell interactions with target cells. **Subunit:** Heterodimer of an alpha and a beta subunit. **Subcellular Location:** Membrane; Single-pass type I membrane protein. **Post-translational modifications:** Phosphorylation on Ser-1027 inhibits PXN binding. **Similarity:** Belongs to the integrin alpha chain family. Contains 7 FG-GAP repeats. **SWISS:** P13612 **Gene ID:** 3676 **Database links:** Entrez Gene: 3676Human

	Entrez Gene: 16401Mouse Omim: 192975Human SwissProt: P13612Human SwissProt: Q00651Mouse Unigene: 440955Human Unigene: 31903Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. 整合素-α-4型 Integrin α4 (CD49d)整合素-α是介导细胞与Extracellular matrix粘附作用的主要因子。
Picture:	 Blank control: U937(blue). Primary Antibody: Rabbit Anti-Integrin alpha 4 antibody(SL0641R), Dilution: 1µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X

PBS containing 0.5% BSA.

Protocol

The cells were fixed with 2% paraformaldehyde (10 min). Primary antibody (SL0641R) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 10% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.



Black line : Positive blank control (U937); Negative blank control (MCF7)

Green line : Primary Antibody (Rabbit Anti-Integrin alpha 4 antibody (SL0641R))

Orange line：Isotype Control Antibody (Rabbit IgG) .

Blue line : Secondary Antibody (Goat anti-rabbit IgG-AF647)

U937（Positive）and MCF7（Negative control）cells (black) were incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with Integrin alpha 4 Antibody(SL0641R)at 1:50 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS,

	followed by secondary antibody(blue) incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).