

Mouse CD49d Monoclonal Antibody | anti-CD49d antibody

Anti-Hu CD49d FITC

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128395	Mouse	Sheep, Cat, Horse, Dog, Cow, Non-human primates, Human	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD49d; Monoclonal Antibody; Anti-Hu CD49d FITC; integrin subunit alpha 4; ITGA4; Integrin alpha-4; VLA-4 alpha; VLA4 alpha; anti-CD49d antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Sheep, Cat, Horse, Dog, Cow, Non-human primates, Human
Clonality	Monoclonal
Isotype	IgG1 kappa
Clone Number	9F10
Specificity	The mouse monoclonal antibody 9F10 recognizes an extracellular epitope of CD49d (alpha 4 integrin), a 145-180 kDa type I transmembrane glycoprotein expressed on B and T cells, monocytes, eosinophils, basophils, NK cells, and dendritic cells, but not platelets.
Purity/Purification	The purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Sequence Length	1032
Applicable Applications for anti-CD49d antibody	FCM/FACS (Flow Cytometry)
Conjugation	FITC
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light.

ADDITIONAL INFORMATION

Related Product Information for anti-CD49d antibody	CD49d / integrin alpha 4, unlike other alpha integrins, neither contains an I-domain, nor undergoes disulfide-linked cleavage. It associates with beta 7 chain to form alpha 4 / beta 7 integrin, and with beta 1 chain (CD29) to form VLA-4 integrin. These complexes are important for lymphocyte migration from circulation into tissue (binding VCAM-1) and homing of T cell subsets to Peyer's patches (binding MadCAM-1), but VLA-4 is also target for invasive bacteria which contain invasins. CD49d is essential for differentiation and migration of hematopoietic stem cells by their adhesion to bone marrow stromal cells, and provides a costimulatory signal to TCR-CD3 complex by inducing phosphorylation of some focal adhesion proteins.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	311033436
NCBI GeneID	3676
UniProt Accession #	P13612
NCBI Official Full Name	Integrin alpha-4

NCBI Official Synonym Full Names	integrin subunit alpha 4
NCBI Official Symbol	ITGA4
NCBI Official Synonym Symbols	IA4; CD49D
NCBI Protein Information	integrin alpha-4
UniProt Protein Name	Integrin alpha-4
UniProt Gene Name	ITGA4
UniProt Synonym Gene Names	CD49D
UniProt Entry Name	ITA4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/cd49d-antibody-clone-9f10-flow-cytometry-elisa/128395>