

Mouse CD49e Antibody | anti-CD49e antibody

Anti-Hu CD49e PE

CATALOG # AAA129348	HOST Mouse	REACTIVITY Non-human primates, Human	APPLICATIONS Flow Cytometry, Functional Assay
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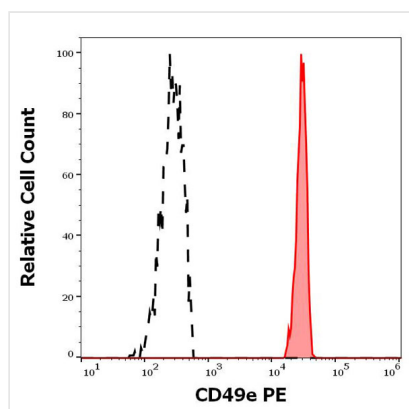
PRODUCT SYNONYMS

CD49e; Anti-Hu CD49e PE; integrin subunit alpha 5; VLA5 alpha; integrin 5 alpha; FNRA; anti-CD49e antibody

PRODUCT SPECIFICATIONS

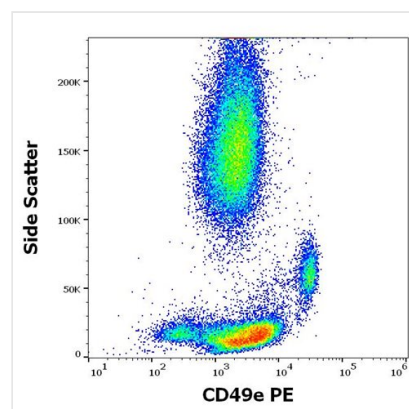
Host	Mouse
Reactivity	Non-human primates, Human
Isotype	Mouse IgG2b
Clone Number	SAM1
Specificity	The mouse monoclonal antibody SAM1 recognizes an extracellular epitope of CD49e (integrin 5 alpha), a transmembrane glycoprotein expressed on thymocytes, early and activated B cells, monocytes, NK cells, dendritic cells, osteoblast and endothelial cells.
Purity/Purification	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Applicable Applications for anti-CD49e antibody	FCM/FACS (Flow Cytometry)
Immunogen	U937 cells
Conjugation	PE
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



FCM/FACS (Flow Cytometry)

Separation of human CD49e positive monocytes (red-filled) from CD49e negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD49e (SAM1) PE antibody (10ul reagent/100ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD49e (SAM1) PE antibody (10ul reagent/100ul of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD49e antibody	CD49e (VLA5 alpha) is a type I transmembrane glycoprotein of the integrin alpha subclass (intergrin 5 alpha), expressed on thymocytes, early and activated B cells, monocytes, NK cells, dendritic cells, osteoblast and endothelial cells. It binds to RGD sequence in fibronectin and to neural adhesion molecule L1. CD49e interactions are important for maintaining the integrity of the endothelial monolayer, as well as it is involved in monocyte migration, T cell costimulation, regulation of cell survival, and other.
References	*Blase L, Merling A, Engelmann S, Moller P, Schwartz-Albiez R: Characterization of cell surface-expressed proteochondroitin sulfate of pre-B Nalm-6 cells and its possible role in laminin adhesion. Leukemia 1996 Jun;10(6):1000-11., URL: https://pubmed.ncbi.nlm.nih.gov/8667635/ ,*Tachimoto H, Hudson SA, Bochner BS: Acquisition and alteration of adhesion molecules during cultured human mast cell differentiation. J Allergy Clin Immunol. 2001 Feb;107(2):302-9, URL: https://pubmed.ncbi.nlm.nih.gov/11174197/ ,*Malara A, Gruppi C, Rebuzzini P, Visai L, Perotti C, Moratti R, Balduini C, Tira ME, Balduini A: Megakaryocyte-matrix interaction within bone marrow: new roles for fibronectin and factor XIII-A. Blood 2011 Feb 24;117(8):2476-83. , URL: https://pubmed.ncbi.nlm.nih.gov/21131589/ ,*Lessey BA, Castelbaum AJ, Buck CA, Lei Y, Yowell CW, Sun J: Further characterization of endometrial integrins during the menstrual cycle and in pregnancy. Fertil Steril. 1994 Sep;62(3):497-506., URL: https://pubmed.ncbi.nlm.nih.gov/8062944/ ,

NCBI AND UNIPROT INFORMATION

NCBI GI #	56237029
NCBI GeneID	3678
NCBI Accession #	NP_002196.2
NCBI GenBank Nucleotide #	NM_002205.2
UniProt Accession #	P08648; Q96HA5
Molecular Weight	114,536 Da
NCBI Official Full Name	integrin alpha-5
NCBI Official Synonym Full Names	integrin, alpha 5 (fibronectin receptor, alpha polypeptide)
NCBI Official Symbol	ITGA5
NCBI Official Synonym Symbols	FNRA; CD49e; VLA5A
NCBI Protein Information	integrin alpha-5; VLA-5; integrin alpha-F; CD49 antigen-like family member E; fibronectin receptor subunit alpha; fibronectin receptor, alpha subunit; very late activation protein 5, alpha subunit
UniProt Protein Name	Integrin alpha-5
UniProt Gene Name	ITGA5
UniProt Synonym Gene Names	FNRA
UniProt Entry Name	ITA5_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/mouse-human-primate-antibody/cd49e/129348>