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30-2697PE: PE Conjugated Anti-Human CD49e (Clone: SAM1)

Clonality :	Monoclonal
Clone Name :	SAM1
Application :	FACS
Reactivity :	Human,Non-Human Primates
Conjugate :	PE
Gene :	CD49e
Gene ID :	3678
Uniprot ID :	P08648
Alternative Name :	VLA5 alpha; integrin 5 alpha;FNRA
Isotype :	Mouse IgG2b
Immunogen Information :	U937 cells

Description

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.
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.

Product Info

Amount :	100 tests
Purification :	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Formulation:Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Application details: Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 106 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

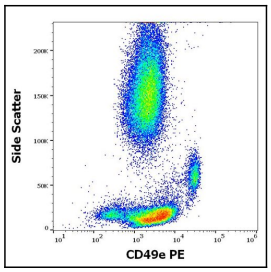


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD49e (SAM1) PE antibody (10 µl reagent / 100 µl of peripheral whole blood).

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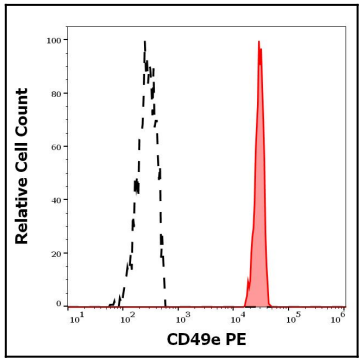


Figure 2: Separation of human CD49e positive monocytes (red-filled) from CD49e negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD49e (SAM1) PE antibody (10 µl reagent / 100 µl of peripheral whole blood).

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