

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

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

### Description

CD49e (VLA5 alpha) is a type I transmembrane glycoprotein of the integrin alpha subclass (integrin 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

<b>Amount :</b>	100 tests
<b>Purification :</b>	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
<b>Content :</b>	Formulation:Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	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 10<sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

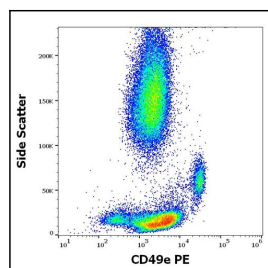


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD49e (SAM1) PE antibody (10 µl reagent / 100 µl of peripheral whole blood).

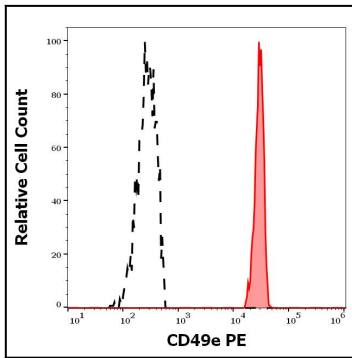


Figure 2: Separation of human CD49e positive monocytes (red-filled) from CD49e negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD49e (SAM1) PE antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).