

### 30-2907: Anti-Hu CD49c APC Mab (ASC-1)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ASC-1
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	APC
<b>Gene :</b>	ITGA3
<b>Gene ID :</b>	3675
<b>Uniprot ID :</b>	P26006
<b>Alternative Name :</b>	ITGA3, VLA-3 alpha, FRP-2, FRP2, GAPB3
<b>Isotype :</b>	Mouse IgG1 kappa
<b>Immunogen Information :</b>	Human SSC-9 cell line (squamous cell carcinoma)

#### Description

**Specificity:** The mouse monoclonal antibody ASC-1 recognizes an extracellular epitope of CD49c (integrin alpha 3), a transmembrane glycoprotein composed of disulfide linked 125 kDa and 30 kDa chains, and expressed on adherent cell lines and to a lesser extent on T and B cells and monocytes.

CD49c / Integrin alpha 3 is a type I transmembrane glycoprotein proteolytically cleaved into two disulfide linked chains. It noncovalently associates with CD29 (integrin beta 1) to form the VLA-3 complex, an adhesion receptor for extracellular matrix components (fibronectin, laminin 1, laminin 5, entactin, and collagen). It is expressed on adherent cells, mainly on fibroblasts, epithelial cells and endothelial cells.

#### Product Info

<b>Amount :</b>	100 tests
<b>Purification :</b>	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
<b>Content :</b>	Storage Buffer: 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

**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.

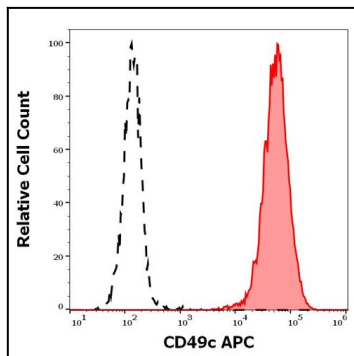


Figure 1: Separation of HeLa cells stained using anti-human CD49c (ASC-1) APC antibody ( $10 \mu\text{l}$  reagent per million cells in  $100 \mu\text{l}$  of cell suspension, red-filled) from HeLa cells stained using mouse IgG1 isotype control (MOPC-21) APC antibody (concentration in sample  $1.67 \mu\text{g/ml}$ , same as CD49c APC concentration, black-dashed) in flow cytometry analysis (surface staining).