



1P-137-T025

## Monoclonal Antibody to CD49c / Integrin alpha 3 Phycoerythrin (PE) conjugated (25 tests)

<b>Clone:</b>	ASC-1
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The mouse monoclonal antibody ASC-1 recognizes 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. HLDA VI; WS Code A002
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Human SSC-9 cell line (squamous cell carcinoma)
<b>Species Reactivity:</b>	Human
<b>Preparation:</b>	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (0.5 ml) is sufficient for 25 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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.
<b>References:</b>	*Pattaramalai S, Skubitz KM, Skubitz AP: A novel recognition site on laminin for the alpha 3 beta 1 integrin. <i>Exp Cell Res.</i> 1996 Feb 1;222(2):281-90. *Skubitz AP, Bast RC, Wayner EA, Letourneau PC, Wilke MS: Expression of alpha 6 and beta 4 integrins in serous ovarian carcinoma correlates with expression of the basement membrane protein laminin. <i>Am J Pathol.</i> 1996 May;148(5):1445-61.

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