

Product Data Sheet

Alexa Fluor® 488 anti-human CD49c (integrin $\alpha 3$)

Catalog # / Size: 343806 / 100 tests

Clone: ASC-1

Isotype: Mouse IgG1, κ

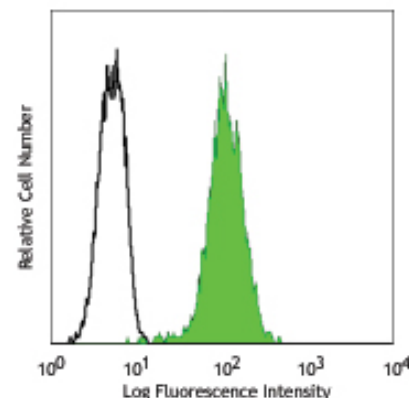
Immunogen: Human squamous cell carcinoma cell line SCC-9

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human osteosarcoma cell line MG-63 stained with ASC-1 Alexa Fluor® 488

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5 μ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

** Alexa Fluor® 488 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 488 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application References:

1. Pattaramalai s, *et al.* 1996. *Exp. Cell Res.* 222:281
2. Skubitz AP, *et al.* 1996. *Am. J. Pathol.* 148:1445
3. Skubitz AP, *et al.* 1998. *FEBS Lett.* 426:386

Description: CD49c is a 150 kD α integrin chain known as $\alpha 3$ integrin or VLA-3 α chain. It is a type I transmembrane glycoprotein which is proteolytically cleaved into two disulfide linked fragments of 125 kD and 30 kD. CD49c forms a heterodimer with integrin $\beta 1$ ($\alpha 3\beta 1$, CD49c/CD29, VLA-3) and is expressed by many types of adhesion cells, such as endothelial cells, epithelial cells and dermal fibroblasts. Weak expression has been reported on leukocytes. VLA-3 plays a role in cell-cell and cell-matrix adhesion through binding Kalinin, collagen, laminin-1, laminin-5, entactin, and fibronectin.

Antigen References: 1. Zola H, *et al.* 2007. *Leukocyte and stromal Cell Molecules:the CD Markers.* A John Wiley & Sons Inc, Publication

Related Products:

Product
 Alexa Fluor® 700 Mouse IgG1, κ Isotype Ctrl
 Cell Staining Buffer
 RBC Lysis Buffer (10X)
 Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone
 MOPC-21

Application
 FC, ICFC
 FC, ICC, ICFC
 FC, ICFC
 FC, ICC, ICFC



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