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Zuschläge

- Mindermengenzuschlag
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Anti- Human CD49d (ALC1/1)

Fluorochrome	Reference	Size
Pure	49DPU-OIMG	100 test
FITC	49DF-100T	100 test
PE	49DPE-100T	100 test
PerCP	49DPP-100T	100 test
APC	49DA-100T	100 test
Biotin	49DB-OIMG	100 test
CF Blue	49DCFB-100T	100 test

PRODUCT DESCRIPTION

Clone: ALC1/1

Isotype: IgG1

Tested application: flow cytometry

Immunogen: The anti-CD49d monoclonal antibody derives from U-937 cell line.

Species reactivity: Human

Storage instruction: store in the dark at 2-8 °C

Storage buffer: aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN₃).

Recommended usage: Immunostep's CD49d, clone ALC1/1 is a monoclonal antibody intended for the identification and enumeration of T and B lymphocytes and weakly on monocytes using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using $\leq 1 \mu\text{g}/10^6$ cells.

Presentation: liquid

Source: Supernatant proceeding from an *in vitro* cell culture of a cell hybridoma.

Purification: Affinity chromatography.

ANTIGEN DETAILS

Large description: Anti-CD49d (Anti-VLA- α -4) clone ALC1/1 recognizes the α -chain of very-late antigen (VLA)-4, a member of the integrin family of cell adhesion molecules. VLA-4, like other integrins, is a noncovalently associated heterodimeric glycoprotein composed of α and β subunits and is involved in cell-cell and cell-extracellular matrix interactions. The β -chain of the VLA-4 complex is the CD29 antigen.

The CD49d antigen binds to CS-1, an alternatively spliced domain of fibronectin. When functioning as a cell receptor, the CD49d antigen binds to the vascular cell-adhesion molecule-1 (VCAM-1). The interaction between the CD49d antigen and VCAM-1 is known to play an important role in stabilizing the adhesion of lymphocytes to endothelial cells and in mediating B-lymphocyte precursor/bone marrow stromal cell adhesion. The CD49d antigen, when associated with the β integrin, forms a lymphocyte homing receptor for Peyer's patch, binding to the mucosal vascular addressin MAdCAM-1. The CD49d antigen is also involved in CD3-dependent CD4+ T-lymphocyte activation via its interaction with fibronectin.⁽¹⁻⁶⁾

Other Names: Alpha-4 integrin chain; VLA-4 alpha chain, CD49 antigen-like family member D, Integrin alpha-IV, VLA-4 subunit alpha.

Gene ID: 3676

Molecular weight: 150 kDa

Please, refer to www.immunostep.com technical support for more information.

WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties. Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

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