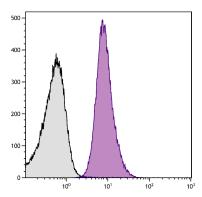




Mouse Anti-Human CD49b

Cat. No.	Format	Size
9426-01	Purified (UNLB)	0.1 mg
9426-02	Fluorescein (FITC)	100 tests
9426-09	R-phycoerythrin (PE)	100 tests



Human peripheral blood platelets were stained with Mouse Anti-Human CD49b-PE (SB Cat. No. 9426-09)

Overview

Clone HAS-4
Isotype Mouse IgG_{2a}k
Immunogen Human keratinocytes
Specificity Human CD49b; Mr 160 kDa

Alternate Name(s) Integrin α_2 , VLA-2 α , very late antigen-2

Workshop N/A

Description

CD49b, a member of the integrin family of extracellular matrix and cell adhesion molecules, is the integrin α_2 chain. CD49b associates noncovalently with CD29, the integrin β_1 subunit, to form the heterodimer integrin $\alpha_2\beta_1$ that binds laminin and collagen. It is expressed on B and T lymphocytes, NK cells, monocytes, platelets, fibroblasts, and long-term cultured T cells. CD49b/CD29 mediates the Mg⁺⁺-dependent adhesion of platelets to collagen. It may also be utilized by fibroblasts for the reorganization of the collagen matrix during wound healing.

Applications

FC – Quality tested ^{6,7}
IHC-FS – Reported in literature ^{2,3}
ICC – Reported in literature ⁴
IP – Reported in literature ^{1,2,6}
Block – Reported in literature ⁵

Working Dilutions

Flow Cytometry Purified (UNLB) antibody $\leq 1 \ \mu g/10^6 \ cells$ FITC and PE conjugates 10 $\mu L/10^6 \ cells$ For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is

appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

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Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C.
 Do not freeze!
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References

- Tenchini ML, Adams JC, Gilbert C, Steel J, Hudson DL, Malcovati M, et al. Evidence against a major role for integrins in calcium-dependent intercellular adhesion of epidermal keratinocytes. Cell Adhes Commun. 1993;1:55-66. (Immunogen, IP)
- 2. Berdichevsky F, Alford D, D-Souza B, Taylor-Papadimitriou J. Branching morphogenesis of human mammary epithelial cells in collagen gels. J Cell Sci. 1994;107:3557-68. (IP, IHC-FS)
- 3. Rikimaru K, Molès J, Watt FM. Correlation between hyperproliferation and suprabasal integrin expression in human epidermis reconstituted in culture. Exp Dermatol. 1997;6:214-21. (IHC-FS)
- 4. Malara A, Gruppi C, Rebuzzini P, Visai L, Perotti C, Moratti R, et al. Megakaryocyte-matrix interaction within bone marrow: new roles for fibronectin and factor XIII-A. Blood. 2011;117:2476-83. (ICC)
- 5. Alford D, Baeckström D, Geyp M, Pitha P, Taylor-Papadimitriou J. Integrin-matrix interactions affect the form of the structures developing from human mammary epithelial cells in collagen or fibrin gels. J Cell Sci. 1998;111:521-32. (Block)
- Hangan D, Uniyal S, Morris VL, MacDonald IC, von Ballestrem C, Chau T, et al. Integrin VLA-2 (α₂β₁) function in postextravasation movement of human rhabdomyosarcoma RD cells in the liver. Cancer Res. 1996;56:3142-9. (IP, FC)
- King SL, Kamatá T, Cunningham JA, Emsley J, Liddington RC, Tákada Y, et àl. Echóvirus 1 interaction with the human very late antigen-2 (integrin α2β1) I domain. Identification of two independent virus contact sites distinct from the metal ion-dependent adhesion site. J Biol Chem. 1997;272:28518-22. (FC)

TB9426 12-Dec-17

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