

Anti-Human CD49e (Integrin alpha 5) Alexa Fluor® 488

Catalog Number: 53-0496

Also known as: Integrin α5, ITGA5, VLA5A

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Human CD49e (Integrin alpha 5) Alexa Fluor® 488



Catalog Number: 53-0496

Clone: eBioSAM-1 (SAM-1, SAM1)

Concentration: 5 µL (0.125 µg)/test

Host/Isotype: Mouse IgG1



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.



Batch Code: Refer to vial



Use By: Refer to vial



Caution, contains Azide

Description

The eBioSAM-1 monoclonal antibody reacts with human integrin alpha 5, also known as fibronectin receptor alpha chain, very late activation antigen 5 alpha, and CD49e. Integrins are composed of an alpha chain and a beta chain, which non-covalently associate to form the functional integrin. Integrin heterodimers participate in cell surface-mediated signaling and adhesion functions. Integrin alpha 5 undergoes post-translational cleavage in its extracellular domain to yield disulfide linked light and heavy chains that join with Integrin beta 1 (CD29) to form the fibronectin receptor, also known as the very late activation antigen-5 (VLA-5) complex. Integrin alpha 5 is expressed on thymocytes, T cells, monocytes, platelets, early B cells, and activated B cells.

Applications Reported

This eBioSAM-1 (SAM-1, SAM1) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBioSAM-1 (SAM-1, SAM1) antibody has been pre-titrated and tested by flow cytometric analysis of human PBMCs. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

References

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Grassi F, Dezutter-Dambuyant C, McIlroy D, Jacquet C, Yoneda K, Imamura S, Boumsell L, Schmitt D, Autran B, Debre P, Hosmalin A. Monocyte-derived dendritic cells have a phenotype comparable to that of dermal dendritic cells and display ultrastructural granules distinct from Birbeck granules. *J Leukoc Biol.* 1998 Oct;64(4):484-93. (**SAM-1**, FC, IHC, PubMed)

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Theodore PR, Simon AR, Warrens AN, Sackstein R, Sykes M. Porcine mononuclear cells adhere to human fibronectin independently of very late antigen-5: implications for donor-specific tolerance induction in xenotransplantation. *Xenotransplantation.* 2002 Jul;9(4):277-89. (**SAM-1**, FA, PubMed)

Related Products

17-0038 Anti-Human CD3 APC (UCHT1)

53-4714 Mouse IgG1 K Isotype Control Alexa Fluor® 488 (P3.6.2.8.1)

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