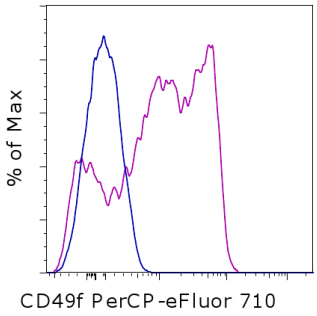
Anti-Human/Mouse CD49f (Integrin alpha 6) PerCP-eFluor® 710

Catalog Number: 46-0495
Also known as: Integrin a6, ITGA6, VLA6
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with 0.03 ug of Rat IgG2a K Isotype Control PerCP-eFluor® 710 (cat. 46-4321) (blue histogram) or 0.03 ug of Anti-Human/Mouse CD49f (Integrin alpha 6) PerCP-eFluor® 710 (purple histogram). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human/Mouse CD49f (Integrin alpha 6) PerCP-eFluor® 710
REF **Catalog Number:** 46-0495
Clone: eBioGoH3 (GoH3)
Concentration: 0.2 mg/mL
Host/Isotype: Rat IgG2a, kappa

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.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial
Contains sodium azide

Description

The eBioGoH3 monoclonal antibody reacts with mouse and human CD49f, also known as integrin alpha 6, very late activation antigen 6 (VLA-6 alpha chain), and platelet gpIc. CD49f is a 120 kD transmembrane protein. CD49f associates with CD29, the integrin beta 1 chain, to form the VLA-6 complex; CD49f also associates with CD104, the integrin beta 4 chain, to form the alpha 6 beta 4 complex. CD49f is expressed primarily on T cells, monocytes, platelets, epithelial and endothelial cells. CD49f expression has also been found on germinal center B cells. The eBioGoH3 antibody is cross-reactive to integrin alpha 6 on human, mouse and bovine cells. This antibody has also been reported to have functional activity in blocking the binding of integrin alpha 6 to laminin.

Applications Reported

This eBioGoH3 (GoH3) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBioGoH3 (GoH3) antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.06 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

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References

Sonnenberg A, Daams H, Van der Valk MA, Hilkens J, Hilgers J. Development of mouse mammary gland: identification of stages in differentiation of luminal and myoepithelial cells using monoclonal antibodies and polyvalent antiserum against keratin. J Histochem Cytochem. 1986 Aug;34(8):1037-46. (**GoH3**, FC, IH/F PubMed)

Aumailley M, Timpl R, Sonnenberg A. Antibody to integrin alpha 6 subunit specifically inhibits cell-binding to laminin fragment 8. Exp Cell Res. 1990 May;188(1):55-60. (**GoH3**, FA, PubMed)

Ambrose HE, Wagner SD. Alpha6-integrin is expressed on germinal centre B cells and modifies growth of a B-cell line. Immunology. 2004 Apr;111(4):400-6. (**GoH3**, FC, PubMed)

Related Products

46-4321 Rat IgG2a K Isotype Control PerCP-eFluor® 710 (eBR2a)

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