

CD49f (Integrin alpha 6) Monoclonal Antibody (eBioGoH3 (GoH3)), PE, eBioscience™

Product Details	
Size	200 µg
Species Reactivity	Human, Mouse
Published Species	Cat, Human, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioGoH3 (GoH3)
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_891476

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.125 µg/test	76 Publications
Functional Assay (Functional)	-	1 Publication

Product Specific Information

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 gplc. 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.

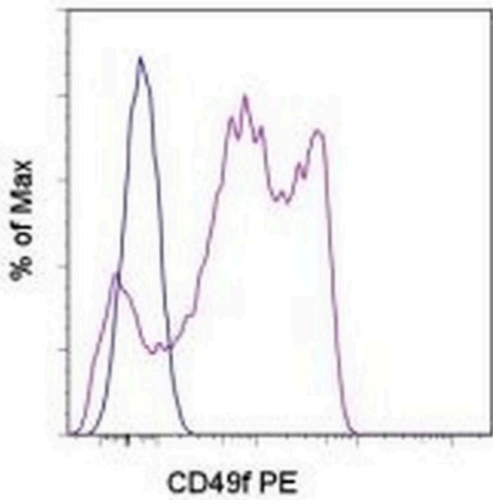
Applications Reported: This eBioGoH3 (GoH3) antibody has been reported for use in flow cytometric analysis.

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 0.125 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD49f (Integrin alpha 6) Monoclonal Antibody (eBioGoH3 (GoH3)), PE, eBioscience™



CD49f (Integrin alpha 6) Antibody (12-0495-83) in Flow
Staining of normal human peripheral blood cells with Rat IgG2a kappa Isotype Control PE (Product # 12-4321-80) (blue histogram) or Anti-Human/Mouse CD49f (Integrin alpha 6) PE (purple histogram). Cells in the lymphocyte gate were used for analysis.

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Immunocytochemistry (2)

<p>STAR protocols</p> <p>Generation and functional characterization of murine mammary organoids.</p> <p>"12-0495-82 was used in Flow Cytometry to describe step-by-step experimental procedures for the successful establishment of murine mammary organoid lines isolated from mammary glands or mammary tumors driven by mutations in components of the PI3K pathway."</p> <p>Authors: Yip HYK,Papa A</p>	<p>Year 2021</p> <p>Species Mouse</p> <p>Dilution 1:800</p>
<p>Molecular biology of the cell</p> <p>The rod domain is not essential for the function of plectin in maintaining tissue integrity.</p> <p>"12-0495 was used in Immunofluorescence to demonstrate that rodless plectin can functionally compensate for the loss of full-length plectin in a knock-in mouse model."</p> <p>Authors: Ketema M,Secades P,Kreft M,Nahidiazar L,Janssen H,Jalink K,de Pereda JM,Sonnenberg A</p>	<p>Year 2015</p> <p>Species Mouse</p>

Flow Cytometry (76)

<p>Frontiers in cell and developmental biology</p> <p>Stemness properties of SSEA-4+ subpopulation isolated from heterogenous Wharton's jelly mesenchymal stem/stromal cells.</p> <p>"Published figure using CD49f (Integrin alpha 6) monoclonal antibody (Product # 12-0495-82) in Flow Cytometry"</p> <p>Authors: Smolinska A,Chodkowska M,Kominek A,Janiec J,Piwocka K,Sulejczak D,Sarnowska A</p>	<p>Year 2024</p>
<p>Annals of translational medicine</p> <p>Human serum albumin promotes self-renewal and expansion of umbilical cord blood CD34⁺ hematopoietic stem/progenitor cells.</p> <p>"12-0495-82 was used in Flow Cytometry to find that HSA was beneficial to maintaining CD34+ cell expansion and short-term colony formation in vitro and optimizing multilineage reconstitution in immunodeficient mice in vivo."</p> <p>Authors: Hua J,Jiao T,Qiao Y,Zhang S,Xiao T,Zhang Y,Yan J</p>	<p>Year 2023</p> <p>Species Human</p>

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Functional (1)

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