

CD49f (Integrin alpha 6) Monoclonal Antibody (eBioGoH3 (GoH3)), Super Bright™ 780, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioGoH3 (GoH3)
Conjugate	Super Bright™ 780
Excitation/Emission Max	413/780 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2744906

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	17 Publications
Neutralization (Neu)	-	2 Publications

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 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBioGoH3 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may 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.

Super Bright 780 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 780 nm. We recommend

using a 780/60 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

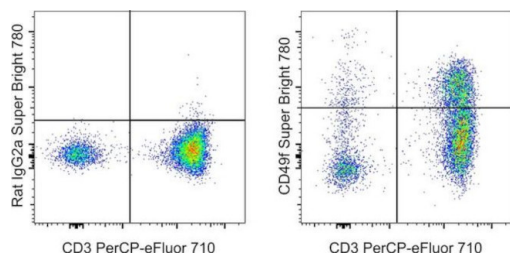
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 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.

Excitation: 405 nm; Emission: 780 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD49f (Integrin alpha 6) Monoclonal Antibody (eBioGoH3 (GoH3)), Super Bright™ 780, eBioscience™



CD49f (Integrin alpha 6) Antibody (78-0495-42) in Flow

Normal human peripheral blood cells were stained with CD3 Monoclonal Antibody, PerCP-eFluor 710 (Product # 46-0036-82) and Rat IgG2a kappa Isotype Control, Super Bright 780 (Product # 78-4321-82) (left) or CD49f Monoclonal Antibody, Super Bright 780 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

23 References

Immunohistochemistry (3)

Journal of anatomy

Integrin expression and extracellular matrix adhesion of septoclasts, pericytes, and endothelial cells at the chondro-osseous junction and the metaphysis of the proximal tibia in young mice.

"Published figure using CD49f (Integrin alpha 6) monoclonal antibody (Product # 78-0495-42) in Immunohistochemistry"

Authors: Bando Y, Nagasaka A, Onozawa G, Sakiyama K, Owada Y, Amano O

Year
2023

Developmental cell

Embigin is a fibronectin receptor that affects sebaceous gland differentiation and metabolism.

"Published figure using CD49f (Integrin alpha 6) monoclonal antibody (Product # 78-0495-42) in Immunohistochemistry"

Authors: Sipilä K, Rognoni E, Jokinen J, Tewary M, Vietri Rudan M, Talvi S, Jokinen V, Dahlström KM, Liakath-Ali K, Mobasser A, Du-Harpur X, Kämpylä J, Nutt SL, Salminen TA, Heino J, Watt FM

Year
2022

[View more IHC references on thermofisher.com](#)

Immunocytochemistry (1)

STAR protocols

Generation and functional characterization of murine mammary organoids.

"Published figure using CD49f (Integrin alpha 6) monoclonal antibody (Product # 78-0495-42) in Immunocytochemistry"

Authors: Yip HYK, Papa A

Year
2021

Flow Cytometry (17)

Scientific reports

Tumor suppressor DEAR1 regulates mammary epithelial cell fate and predicts early onset and metastasis in triple negative breast cancer.

"Published figure using CD49f (Integrin alpha 6) monoclonal antibody (Product # 78-0495-42) in Flow Cytometry"

Authors: Le UQ, Chen N, Balasenthil S, Lurie E, Yang F, Liu S, Rubin L, Solis Soto LM, Raso MG, Batra H, Sahin AA, Wistuba II, Killary AM

Year
2022

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

Neu (2)

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