

# 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
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
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	1 Publication
Neutralization (Neu)	-	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 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 10<sup>5</sup> to 10<sup>8</sup> 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.

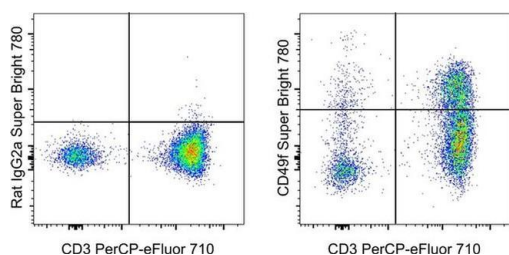
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ 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)

## Flow Cytometry (1)

Molecular carcinogenesis

### A basal-enriched microRNA is required for prostate tumorigenesis in a Pten knockout mouse model.

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

Authors: Fan X,Bjerke GA,Riemony K,Wang L,Yi R

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2019

## Neutralization (1)

Cell stem cell

### Nov/CCN3 Enhances Cord Blood Engraftment by Rapidly Recruiting Latent Human Stem Cell Activity.

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

Authors: Gupta R,Turati V,Brian D,Thrussel C,Wilbourn B,May G,Enver T

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

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