

# CD49f (Integrin alpha 6) Monoclonal Antibody (eBioGoH3 (GoH3)), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioGoH3 (GoH3)
Conjugate	PE-Cyanine7
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_10804881

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	33 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 (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 0.5 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

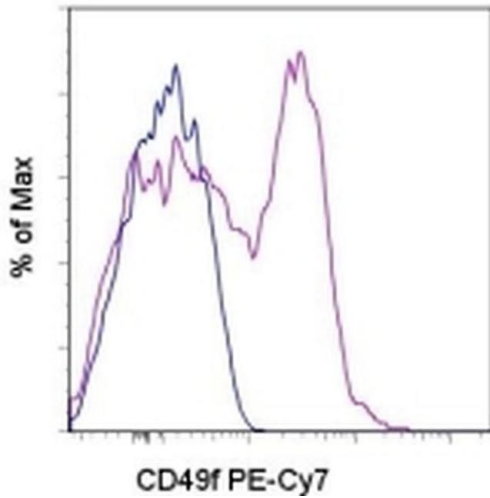
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

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

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2  $\mu$ m post-manufacturing filtered.

## Product Images For CD49f (Integrin alpha 6) Monoclonal Antibody (eBioGoH3 (GoH3)), PE-Cyanine7, eBioscience™



### CD49f (Integrin alpha 6) Antibody (25-0495-82) in Flow

Staining of normal human peripheral blood cells with 0.25  $\mu$ g of Rat IgG2a K Isotype Control PE-Cyanine7 (Product # 25-4321-82) (blue histogram) or 0.25  $\mu$ g of Anti-Human/Mouse CD49f (Integrin alpha 6) PE-Cyanine7 (purple histogram). Cells in the lymphocyte gate were used for analysis.

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## Flow Cytometry (33)

### Cell reports

#### Integrated Single-Cell Transcriptomics and Chromatin Accessibility Analysis Reveals Regulators of Mammary Epithelial Cell Identity.

"25-0495-82 was used in Flow Cytometry to provide a resource to reveal cis/trans-regulatory elements associated with MEC identity and differentiation that will serve as a reference to determine how the chromatin accessibility landscape changes during breast cancer."

Authors: Pervolarakis N,Nguyen QH,Williams J,Gong Y,Gutierrez G,Sun P,Jhutti D,Zheng GXY,Nemec CM,Dai X,Watanabe K,Kessenbrock K

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2020

### Frontiers in immunology

#### Regulatory T Cells Control the Switch From *in situ* to Invasive Breast Cancer.

"Published figure using CD49f (Integrin alpha 6) monoclonal antibody (Product # 25-0495-82) in Flow Cytometry"

Authors: Martinez LM,Robila V,Clark NM,Du W,Idowu MO,Rutkowski MR,Bos PD

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

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

## More applications with references on thermofisher.com

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