

# CD49f (Integrin alpha 6) Monoclonal Antibody (eBioGoH3 (GoH3)), Alexa Fluor™ 700, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioGoH3 (GoH3)
Conjugate	Alexa Fluor™ 700
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_2848461

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	26 Publications
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.

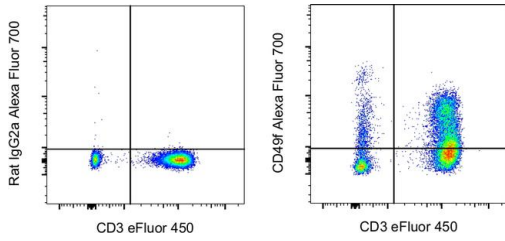
Applications Tested: This eBioGoH3 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell 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.

Alexa Fluor 700 emits at 723 nm and can be excited with the red laser (633-647 nm). Most instruments will require a 685 LP mirror

and 710/20 band pass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser

## Product Images For CD49f (Integrin alpha 6) Monoclonal Antibody (eBioGoH3 (GoH3)), Alexa Fluor™ 700, eBioscience™



### CD49f (Integrin alpha 6) Antibody (56-0495-82) in Flow

Normal human peripheral blood cells were stained with CD3 Monoclonal Antibody, eFluor 450 (Product # 48-0037-42) and 0.125 µg of Rat IgG2a kappa Isotype Control, Alexa Fluor 700 (Product # 56-4321-80) (left) or 0.125 µg of CD49f Monoclonal Antibody, Alexa Fluor 700 (right). Cells in the lymphocyte gate were used for analysis.

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

## 28 References

### Immunohistochemistry (1)

Stem cells (Dayton, Ohio)

#### Stem-like epithelial cells are concentrated in the distal end of the fallopian tube: a site for injury and serous cancer initiation.

"Published figure using CD49f (Integrin alpha 6) monoclonal antibody (Product # 56-0495-82) in Flow Cytometry"

Authors: Paik DY,Janzen DM,Schafenacker AM,Velasco VS,Shung MS,Cheng D,Huang J,Witte ON,Memarzadeh S

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2012

### Flow Cytometry (26)

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 # 56-0495-82) 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

International journal of molecular sciences

#### Chemotherapeutic Stress Influences Epithelial-Mesenchymal Transition and Stemness in Cancer Stem Cells of Triple-Negative Breast Cancer.

"Published figure using CD49f (Integrin alpha 6) monoclonal antibody (Product # 56-0495-82) in Flow Cytometry"

Authors: Li X,Strietz J,Bleilevens A,Stickeler E,Maurer J

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

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

### 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 # 56-0495-82) in Neutralization"

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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

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