

# CD49f (Integrin alpha 6) Monoclonal Antibody (eBioGoH3 (GoH3)), eFluor™ 450, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioGoH3 (GoH3)
Conjugate	eFluor™ 450
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_11042564

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	31 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 (GoH3) antibody has been reported for use in flow cytometric analysis.

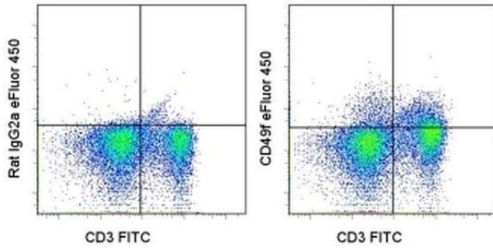
**Applications Tested:** This eBioGoH3 (GoH3) antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 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.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD49f (Integrin alpha 6) Monoclonal Antibody (eBioGoH3 (GoH3)), eFluor™ 450, eBioscience™



### CD49f (Integrin alpha 6) Antibody (48-0495-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.06 µg of Rat IgG2a K Isotype Control eFluor® 450 (Product # 48-4321-82) (left) or 0.06 µg of Anti-Human/Mouse CD49f (Integrin alpha 6) eFluor® 450 (right). Total viable cells were used for analysis.

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

## 33 References

### Immunohistochemistry (1)

Breast cancer research : BCR

#### Evidence for a multipotent mammary progenitor with pregnancy-specific activity.

"Published figure using CD49f (Integrin alpha 6) monoclonal antibody (Product # 48-0495-82) in Flow Cytometry"

Authors: Kaanta AS,Virtanen C,Selfors LM,Brugge JS,Neel BG

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2014

### Flow Cytometry (31)

Neoplasia (New York, N.Y.)

#### CBP-mediated Wnt3a/catenin signaling promotes cervical oncogenesis initiated by Piwil2.

"48-0495 was used in Flow cytometry/Cell sorting to determine that canonical Wnt signaling was aberrantly activated in HaCaT cells transfected with lentivirus expressing Piwil2 and in cervical lesion specimens of low-grade squamous intraepithelial lesion, high-grade squamous intraepithelial lesion, and invasive carcinoma."

Authors: Feng D,Yan K,Liang H,Liang J,Wang W,Yu H,Zhou Y,Zhao W,Dong Z,Ling B

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2021

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 # 48-0495-82) 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](#)

### 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 # 48-0495-82) in Neutralization"

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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

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