

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

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human, Mouse
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	eBioGoH3 (GoH3)
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_891480

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	0.5 µg/test	29 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Neutralization (Neu)	-	1 Publication
Inhibition Assays (IA)	-	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 (GoH3) antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistology staining of frozen tissue sections.

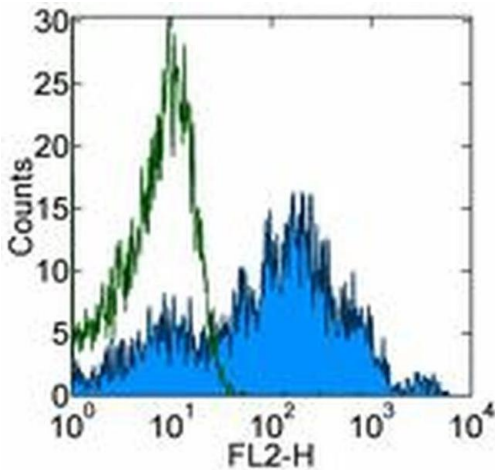
Applications Tested: This eBioGoH3 (GoH3) antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. 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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



### CD49f (Integrin alpha 6) Antibody (14-0495-82) in Flow

Staining of normal human peripheral blood cells with 0.25 µg of Rat IgG2a Isotype Control Purified (Product # 14-4321-82) (open histogram) or 0.25 µg of Anti-Human/Mouse CD49f (Integrin alpha 6) Purified (filled histogram) followed by Anti-Rat IgG PE (Product # 12-4822). Cells in the lymphocyte gate were used for analysis.

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## Western Blot (1)

Nature cell biology

### GATA3 suppresses metastasis and modulates the tumour microenvironment by regulating microRNA-29b expression.

"Published figure using CD49f (Integrin alpha 6) monoclonal antibody (Product # 14-0495-82) in Flow Cytometry"

Authors: Chou J, Lin JH, Brenot A, Kim JW, Provot S, Werb Z

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2013

## Immunohistochemistry (2)

Nature

### Stem cell function and stress response are controlled by protein synthesis.

"14-0495 was used in Immunohistofluorescence to study how stem cells can revoke translation inhibition pathways to control their function and stress response.."

Authors: Blanco S, Bandiera R, Popis M, Hussain S, Lombard P, Aleksic J, Sajini A, Tanna H, Cortés-Garrido R, Gkatza N, Dietmann S, Frye M

**Species**  
Mouse

**Dilution**  
1:500

**Year**  
2016

Breast cancer research : BCR

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

"Published figure using CD49f (Integrin alpha 6) monoclonal antibody (Product # 14-0495-82) in Immunofluorescence"

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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2014

## Immunohistochemistry (PFA fixed) (1)

Nature communications

### Contribution of GATA6 to homeostasis of the human upper pilosebaceous unit and acne pathogenesis.

"14-0495-81 was used in Immunohistochemistry (PFA fixed) to show that GATA6, which is expressed in the upper pilosebaceous unit of normal human skin, is down-regulated in acne."

Authors: Oulès B, Philippeos C, Segal J, Tihy M, Vietri Rudan M, Cujba AM, Grange PA, Quist S, Natsuga K, Deschamps L, Dupin N, Donati G, Watt FM

**Species**  
Human

**Dilution**  
1:200

**Year**  
2020

## More applications with references on thermofisher.com

ICC/IF (3)

Flow (29)

Neu (1)

IA (2)

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