

CD49f (Integrin alpha 6) Monoclonal Antibody (eBioGoH3 (GoH3)), APC-eFluor™ 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioGoH3 (GoH3)
Conjugate	APC-eFluor™ 780
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_2848357

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	26 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 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 10⁵ to 10⁸ cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

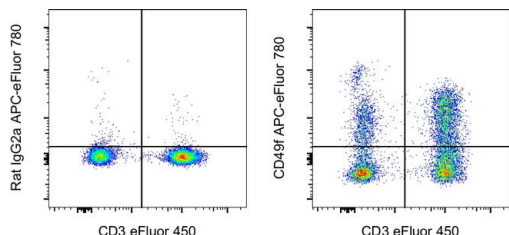
APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633-647 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

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 # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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: 633-647 nm; Emission: 780 nm; Laser: Red Laser

Product Images For CD49f (Integrin alpha 6) Monoclonal Antibody (eBioGoH3 (GoH3)), APC-eFluor™ 780, eBioscience™



CD49f (Integrin alpha 6) Antibody (47-0495-82) in Flow

Normal human peripheral blood cells were stained with CD3 Monoclonal Antibody, eFluor 450 (Product # 48-0038-42) and 0.125 µg of Rat IgG2a kappa Isotype Control, APC-eFluor 780 (Product # 47-4321-82) (left) or 0.125 µg of CD49f (Integrin alpha 6) Monoclonal Antibody, APC-eFluor 780 (right). Cells in the lymphocyte gate were used for analysis.

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26 References

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 # 47-0495-82) 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 # 47-0495-82) in Flow Cytometry"

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

Species
Not Applicable

Dilution
Not Cited

Year
2020

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More applications with references on thermofisher.com

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