



Product Details	
Size	100 μg
Species Reactivity	Mouse
Published Species	Rat, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	429
Conjugate	PE
Excitation/Emission Max	565/576 nm
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_2572573

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	10 Publications

Product Specific Information

Description: The 429 monoclonal antibody reacts with mouse CD106 (Vascular Cell Adhesion Molecule-1, VCAM-1), a 110 kDa transmembrane glycoprotein expressed by myeloid lineage and bone marrow stromal cells. Endothelial cells constitutively express low levels of CD106 and upregulate it upon cytokine stimulation. CD106 binds to integrin alpha4 beta1 (VLA-4, CD49d /CD29) and Integrin a4b7 (LPAM-1) and these interactions in the bone marrow and thymus are important for early lymphocyte and myeloid development. Cytokine-mediated upregulation of CD106 on endothelial cells suggests a role for this antigen in the inflammatory response.

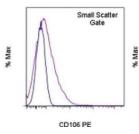
Applications Reported: This 429 antibody has been reported for use in flow cytometric analysis.

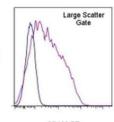
Applications Tested: This 429 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD106 (VCAM-1) Monoclonal Antibody (429), PE, eBioscience™





CD106 (VCAM-1) Antibody (12-1061-82) in Flow

Staining of C57Bl/6 bone marrow cells with 0.125 µg of Rat IgG2a K Isotype Control PE (Product # 12-4321-80) (blue histogram) or 0.125 µg of Anti-Mouse CD106 (VCAM-1) PE (purple histogram). Cells in the small scatter population (left) and large scatter population (right) gates were used for analysis.

View more figures on thermofisher.com

□ 10 References

Flow Cytometry (10)

Therapeutic advances in chronic disease

Extracellular HMGB-1 activates inflammatory signaling in tendon cells and tissues.

"Published figure using CD106 (VCAM-1) monoclonal antibody (Product # 12-1061-82) in Flow Cytometry" Authors: Zhang C,Gu X,Zhao G,Wang W,Shao J,Zhu J,Yuan T,Sun J,Nie D,Zhou Y

Year 2022

Species Rat

Dilution

iScience

Uhrf1 governs the proliferation and differentiation of muscle satellite cells.

"12-1061-82 was used in Flow Cytometry to show that Uhrf1 is a critical epigenetic regulator of proliferation and differentiation in satellite cells, by controlling cell-type-specific gene expression via maintenance of DNA methylation."

Authors: Sakai H,Sawada Y,Tokunaga N,Tanaka K,Nakagawa S,Sakakibara I,Ono Y,Fukada SI,Ohkawa Y,Kikugawa T, Saika T,Imai Y

Year 2022

Species Mouse

Dilution 1:100

View more Flow references on thermofisher.com

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