

CD106 (VCAM-1) Monoclonal Antibody (429), FITC, eBioscience™

Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	429
Conjugate	FITC
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465181

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	14 Publications
Functional Assay (FN)	-	1 Publication

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 alpha4beta1 (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.

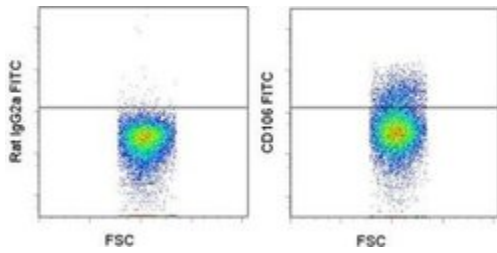
Applications Reported: The 429 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The 429 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.5 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD106 (VCAM-1) Antibody (11-1061-82) in Flow

Staining of BALB/c bone marrow cells 0.25 µg of Rat IgG2a kappa Isotype Control FITC (Product # 11-4321-42) (left) or 0.25 µg of Anti-Mouse CD106 (VCAM-1) FITC (right). Cells in the large scatter population were used for analysis.

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

Immunohistochemistry (2)

Critical care (London, England)

Effects of intra-abdominal sepsis on atherosclerosis in mice.

"Published figure using CD106 (VCAM-1) monoclonal antibody (Product # 11-1061-82) in Immunofluorescence"

Authors: Kaynar AM, Yende S, Zhu L, Frederick DR, Chambers R, Burton CL, Carter M, Stolz DB, Agostini B, Gregory AD, Nagarajan S, Shapiro SD, Angus DC

Species
Not Applicable

Dilution
Not Cited

Year
2014

Journal of controlled release : official journal of the Controlled Release Society

Site-specific targeting of antibody activity in vivo mediated by disease-associated proteases.

"11-1061 was used in Immunohistochemistry to demonstrate that the activity of disease-associated proteases can be exploited to site-specifically target antibody activity in vivo."

Authors: Erster O, Thomas JM, Hamzah J, Jabaiah AM, Getz JA, Schoep TD, Hall SS, Ruoslahti E, Daugherty PS

Species
Mouse

Dilution
Not Cited

Year
2012

Immunohistochemistry (Frozen) (1)

PloS one

A novel role for PECAM-1 (CD31) in regulating haematopoietic progenitor cell compartmentalization between the peripheral blood and bone marrow.

"11-1061 was used in Immunofluorescence on frozen tissues to investigate the role of PECAM-1 in the bone marrow microenvironment."

Authors: Ross EA, Freeman S, Zhao Y, Dhanjal TS, Ross EJ, Lax S, Ahmed Z, Hou TZ, Kalia N, Egginton S, Nash G, Watson SP, Frampton J, Buckley CD

Species
Mouse

Dilution
Not Cited

Year
2008

Immunocytochemistry (1)

Nature communications

The critical role of SENP1-mediated GATA2 deSUMOylation in promoting endothelial activation in graft arteriosclerosis.

"11-1061 was used in Flow cytometry/Cell sorting to determine that SENP1-mediated SUMOylation drives graft arteriosclerosis by regulating the synergistic effect of GATA2 and NF-B."

Authors: Qiu C, Wang Y, Zhao H, Qin L, Shi Y, Zhu X, Song L, Zhou X, Chen J, Zhou H, Zhang H, Tellides G, Min W, Yu L

Species
Human
Mouse

Dilution
Not Cited
Not Cited

Year
2017

More applications with references on thermofisher.com

Flow (14)

FN (1)

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