

CD106 (VCAM-1) Monoclonal Antibody (429), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	429
Conjugate	PE-Cyanine7
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_2784660

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

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: 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 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.

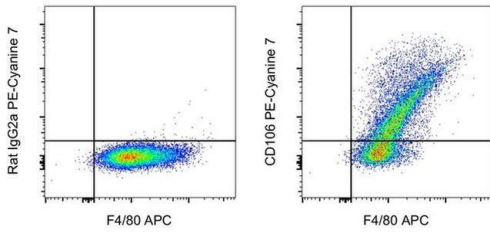
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser

Product Images For CD106 (VCAM-1) Monoclonal Antibody (429), PE-Cyanine7, eBioscience™



CD106 (VCAM-1) Antibody (25-1061-82) in Flow

C57BL/6 mouse bone marrow cells were stained with F4/80 Monoclonal Antibody, APC (Product # 17-4801-82) and 0.125 µg of Rat IgG2a kappa Isotype Control, PE-Cyanine7 (Product # 25-4321-82) (left) or 0.125 µg of CD106 Monoclonal Antibody, PE-Cyanine7 (right). Cells in the large scatter population were used for analysis.

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