

CD49d (Integrin alpha 4) Monoclonal Antibody (R1-2), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	R1-2
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_2811776

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	2 Publications

Product Specific Information

Description: The R1-2 monoclonal antibody reacts with mouse CD49d, the 150 kDa integrin alpha4 subunit. The complex of CD49d non-covalently associated with integrin beta1 (CD29), also known as VLA-4, is a receptor for fibronectin and VCAM-1 (CD106). This complex is expressed by thymocytes, peripheral lymphocytes, monocytes and eosinophils. CD49d also associates with integrin b7 and binds to the Mucosal vascular Addressin (MAdCAM-1).^{^M}

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Applications Reported: This R1-2 antibody has been reported for use in flow cytometric analysis.^{^M}

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Applications Tested: This R1-2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may 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^{^5} to 10^{^8} cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.^{^M}

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

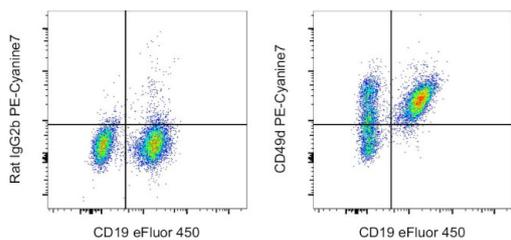
^{^M}

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.^{^M}

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

Product Images For CD49d (Integrin alpha 4) Monoclonal Antibody (R1-2), PE-Cyanine7, eBioscience™



CD49d (Integrin alpha 4) Antibody (25-0492-82) in Flow

BALB/c mouse splenocytes were stained with CD19 Monoclonal Antibody, eFluor 450 (Product # 48-0193-82) and 0.25 µg of Rat IgG2b kappa Isotype Control, PE-Cyanine7 (Product # 25-4031-82) (left) or 0.25 µg of CD49b Monoclonal Antibody, PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](#)

2 References

Flow Cytometry (2)

iScience

Niche-expressed Galectin-1 is involved in pre-B acute lymphoblastic leukemia relapse through pre-B cell receptor activation.

"25-0492-82 was used in Flow cytometry/Cell sorting to show that non-cell autonomous signals transmitted by BM niches represent promising targets to improve B-ALL patient survival."

Authors: Pelletier J, Balzano M, Destin J, Montersino C, Delahaye MC, Marchand T, Bailly AL, Bardin F, Coppin E, Goubard A, Castellano R, de Bruijn MJW, Rip J, Collette Y, Dubreuil P, Tarte K, Broccardo C, Hendriks RW, Schiff C, Vey N, Aurrand-Lions M, Mancini SJC

Year
2023

Species
Mouse

EMBO molecular medicine

Low immunogenicity of malaria pre-erythrocytic stages can be overcome by vaccination.

"Published figure using CD49d (Integrin alpha 4) monoclonal antibody (Product # 25-0492-82) in Flow Cytometry"

Authors: Müller K, Gibbins MP, Roberts M, Reyes-Sandoval A, Hill AVS, Draper SJ, Matuschewski K, Silvie O, Hafalla JCR

Year
2021

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