

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	R1-2
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_465697

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	17 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).

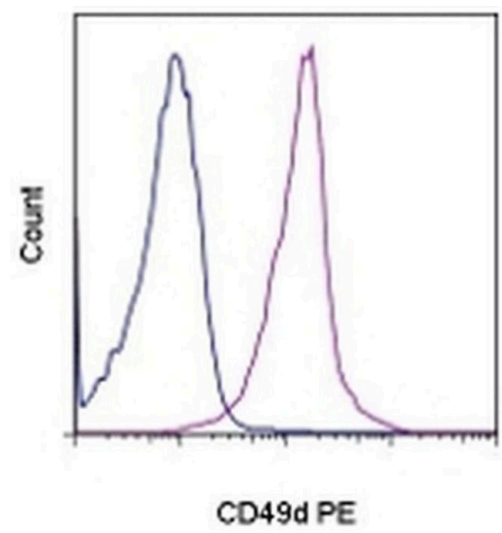
Applications Reported: The R1-2 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The R1-2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 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 CD49d (Integrin alpha 4) Monoclonal Antibody (R1-2), PE, eBioscience™



CD49d (Integrin alpha 4) Antibody (12-0492-82) in Flow
Staining of BALB/c splenocytes with 0.5 µg of Rat IgG2b K Isotype Control PE (Product # 12-4031-82) (blue histogram) or 0.5 µg of Anti-Mouse CD49d (Integrin alpha 4) PE (purple histogram). Cells in the lymphocyte gate were used for analysis.

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17 References

Flow Cytometry (17)

<p>EMBO molecular medicine</p> <p>Low immunogenicity of malaria pre-erythrocytic stages can be overcome by vaccination.</p> <p>"12-0492-82 was used in Flow Cytometry to test the impact of pre-erythrocytic malaria immunogenicity on the immune system response."</p> <p>Authors: Müller K,Gibbins MP,Roberts M,Reyes-Sandoval A,Hill AVS,Draper SJ,Matuschewski K,Silvie O,Hafalla JCR</p>	<p>Year 2021</p> <p>Species Mouse</p>
<p>Cell reports</p> <p>Diverse CD8 T Cell Responses to Viral Infection Revealed by the Collaborative Cross.</p> <p>"12-0492 was used in Flow cytometry/Cell sorting to advance the utility of the Collaborative Cross (CC) as a tool to analyze the immune response to viral infection."</p> <p>Authors: Martin MD,Sompallae R,Winborn CS,Harty JT,Badovinac VP</p>	<p>Year 2020</p> <p>Species Mouse</p>

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