

CD49d (Integrin alpha 4) Monoclonal Antibody (R1-2), Super Bright™ 436, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	R1-2
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2744779

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

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.

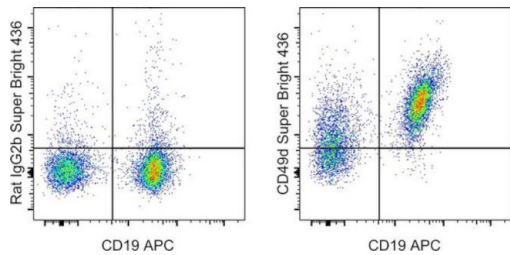
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD49d (Integrin alpha 4) Monoclonal Antibody (R1-2), Super Bright™ 436, eBioscience™



CD49d (Integrin alpha 4) Antibody (62-0492-80) in Flow
C57BL/6 mouse splenocytes were stained with CD19 Monoclonal Antibody, APC (Product # 17-0193-82) and 1 µg of Rat IgG2b kappa Isotype Control, Super Bright 436 (Product # 62-4031-82) (left) or 1 µg of CD49d Monoclonal Antibody, Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

1 Reference

Flow Cytometry (1)

EMBO molecular medicine	Year 2021
Low immunogenicity of malaria pre-erythrocytic stages can be overcome by vaccination.	
"Published figure using CD49d (Integrin alpha 4) monoclonal antibody (Product # 62-0492-82) in Flow Cytometry"	
Authors: Müller K,Gibbins MP,Roberts M,Reyes-Sandoval A,Hill AVS,Draper SJ,Matuschewski K,Silvie O,Hafalla JCR	

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