

CD49d (Integrin alpha 4) Monoclonal Antibody (R1-2), Super Bright™ 702, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	R1-2
Conjugate	Super Bright™ 702
Excitation/Emission Max	413/702 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_2744884

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 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 bandpass filter. 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.

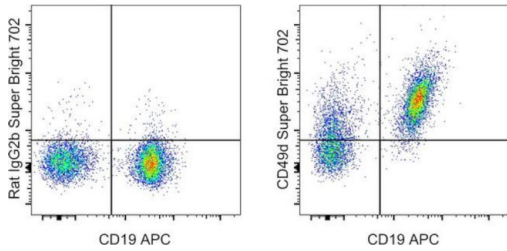
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) 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: 405 nm; Emission: 702 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™ 702, eBioscience™



CD49d (Integrin alpha 4) Antibody (67-0492-82) 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 702 (Product # 67-4031-82) (left) or 1 µg of CD49d Monoclonal Antibody, Super Bright 702 (right). Cells in the lymphocyte gate were used for analysis.

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

1 Reference

Flow Cytometry (1)

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 # 67-0492-82) in Flow Cytometry"

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Year
2021

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