

CD1d Monoclonal Antibody (1B1), Super Bright™ 645, 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™ 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	1B1
Conjugate	Super Bright™ 645
Excitation/Emission Max	414/645 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_2688078

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	2 Publications

Product Specific Information

Description: The 1B1 monoclonal antibody reacts with mouse CD1d, a 48 kDa glycoprotein with structural homology to MHC class I molecules. While similar to MHC Class I, CD1d associates with beta2m, functionally CD1d is similar to MHC Class II. 1B1 detects CD1d at varying levels on mouse leukocytes. 1B1 detects beta2m associated CD1d.

Applications Reported: The 1B1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The 1B1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 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 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 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.

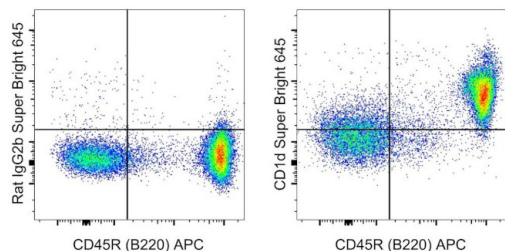
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4 degrees 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: 645 nm; Laser: Violet Laser

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

Product Images For CD1d Monoclonal Antibody (1B1), Super Bright™ 645, eBioscience™



CD1d Antibody (64-0011-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452) and 0.06 μ g of Rat IgG2b K Isotype Control Super Bright 645 (Product # 64-4031) (left) or 0.06 μ g of Anti-Mouse CD1d Super Bright 645 (right). Cells in the lymphocyte gate were used for analysis.

2 References

Flow Cytometry (2)

Journal of translational medicine

Methotrexate-loaded nanoparticles ameliorate experimental model of autoimmune arthritis by regulating the balance of interleukin-17-producing T cells and regulatory T cells.

"Published figure using CD1d monoclonal antibody (Product # 64-0011-82) in Flow Cytometry"

Authors: Park JS, Lee D, Yang S, Jeong HY, Na HS, Cho KH, Choi J, Koo H, Cho ML, Park SH

Year
2022

Scientific reports

Tregitopes regulate the tolerogenic immune response and decrease the foetal death rate in abortion-prone mouse matings.

"Published figure using CD1d monoclonal antibody (Product # 64-0011-82) in Flow Cytometry"

Authors: Kedzierska AE, Lorek D, Slawek A, Chelmonska-Soyta A

Year
2020

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.