

# CD1d Monoclonal Antibody (1B1), 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	1B1
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_2744761

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 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 0.5 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

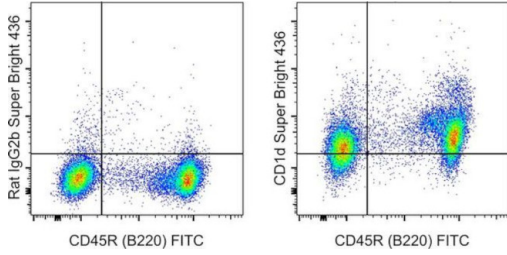
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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 CD1d Monoclonal Antibody (1B1), Super Bright™ 436, eBioscience™



### CD1d Antibody (62-0011-80) in Flow

C57BL/6 mouse splenocytes were stained with CD45R (B220) Monoclonal Antibody, FITC (Product # 11-0452-82) and 0.25 µg of Rat IgG2b kappa Isotype Control, Super Bright 436 (Product # 62-4031-82) (left) or 0.25 µg of CD1d Monoclonal Antibody, Super Bright 436 (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 # 62-0011-82) 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 # 62-0011-82) in Flow Cytometry"

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

Year  
2020

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