

CD1d Monoclonal Antibody (1B1), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	1B1
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_468838

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	7 Publications
Neutralization (Neu)	-	2 Publications
Functional Assay (FN)	Assay-Dependent	-

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. 1B1 has also been reported in in vivo and in vitro studies.

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 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.

Storage and handling: Use in a sterile environment.

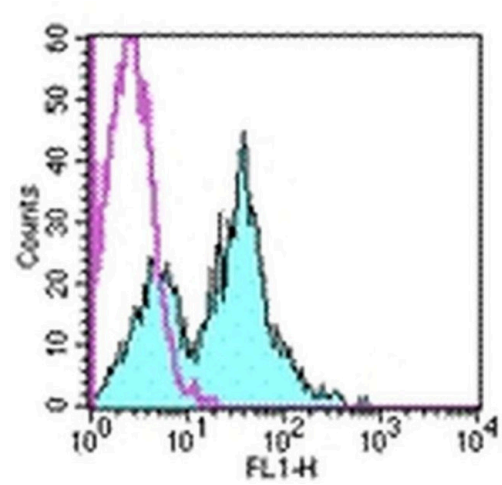
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/μg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

Product Images For CD1d Monoclonal Antibody (1B1), Functional Grade, eBioscience™



CD1d Antibody (16-0011-82) in Flow
Staining of BALB/c splenocytes with 1.0 μg of Rat IgG2b K Isotype Control Functional Grade Purified (Product # 16-4031-81) (open histogram), or 1.0 μg of Anti-Mouse CD1d Functional Grade Purified (filled histogram) followed by Anti-Rat IgG FITC (Product # 11-4811-85). Total viable cells were used for analysis.

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Western Blot (1)

<p>PloS one</p> <p>FHL1 reduces dystrophy in transgenic mice overexpressing FSHD muscular dystrophy region gene 1 (FRG1).</p> <p>"Published figure using CD1d monoclonal antibody (Product # 16-0011-82) in Western Blot"</p> <p>Authors: Feeney SJ,McGrath MJ,Sriratana A,Gehrig SM,Lynch GS,D'Arcy CE,Price JT,McLean CA,Tupler R,Mitchell CA</p>	<p>Year</p> <p>2015</p>
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Flow Cytometry (7)

<p>Journal of translational medicine</p> <p>Methotrexate-loaded nanoparticles ameliorate experimental model of autoimmune arthritis by regulating the balance of interleukin-17-producing T cells and regulatory T cells.</p> <p>"Published figure using CD1d monoclonal antibody (Product # 16-0011-82) in Flow Cytometry"</p> <p>Authors: Park JS, Lee D, Yang S, Jeong HY, Na HS, Cho KH, Choi J, Koo H, Cho ML, Park SH</p>	<p>Year</p> <p>2022</p>
<p>Scientific reports</p> <p>Tregitopes regulate the tolerogenic immune response and decrease the foetal death rate in abortion-prone mouse matings.</p> <p>"Published figure using CD1d monoclonal antibody (Product # 16-0011-82) in Flow Cytometry"</p> <p>Authors: Kedzierska AE, Lorek D, Slawek A, Chelmonska-Soyta A</p>	<p>Year</p> <p>2020</p>

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Neutralization (2)

<p>BMC gastroenterology</p> <p>Impaired liver regeneration is associated with reduced cyclin B1 in natural killer T cell-deficient mice.</p> <p>"16-0011 was used in Blocking experiments to study the role of natural killer T cells in liver regeneration, and their association with cyclin B1 and IL-6."</p> <p>Authors: Ben Ya'acov A, Meir H, Zolotaryova L, Ilan Y, Shteyer E</p>	<p>Year</p> <p>2017</p> <p>Species</p> <p>Mouse</p>
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