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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-CD1d [1B1] Standard Size Ab02718-2.0

This chimeric mouse antibody was made using the variable domain sequences of the original Rat IgG2b format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Mouse IgG2a, Kappa

Clone Number: 1B1

Alternative Name(s) of Target: Antigen-presenting glycoprotein CD1d1; Cd1d1; CD1d.1

UniProt Accession Number of Target Protein: P11609

Published Application(s): therapeutic, ELISA, FC, IF, IHC

Published Species Reactivity: Mouse

Immunogen: The original version of this antibody was raised by immunizing Lewis rats using mCD1-transfected RMA-S cells.

Specificity: This antibody is specific for CD1d. Its binding is blocked by antibody clone 3D11. CD1d is an antigen-presenting protein that binds self and non-self glycolipids and presents them to T-cell receptors on natural killer T-cells.

Application Notes: In an attempt to further the understanding of CD1 proteins, flow cytometry was performed on mouse spleen cells using the rat version of this antibody. Further, mice infected with L. monocytogenes were treated with the rat version of this antibody. Finally, mice spleen cells were stained with the mouse version of this antibody (Szalay et al, 1999; pmid:10358132). To investigate the tissue distribution of murine CD1 in mice, immunohistochemistry was performed on thymus, small intestine, and spleen tissue of mice using the rat version of this antibody. Further, flow cytometry was performed on epithelial cells and IEL using the rat version of this antibody (Brassay et al, 1997; pmid:9233616). In order to measure mCD1-restricted T cell responses to glycolipids, the rat version of this antibody was added after which cytokine levels were assessed by ELISA (Burdin et al, 1998; pmid:9759842). To assess the role of CD1 in the pathogenesis of lupus the rat version of this antibody was used for immunofluorescent staining and flow cytometry on single cell suspensions of mouse spleen cells or mouse bone marrow. The mouse version of this antibody was further tested in vivo on mice with lupus. Their lifespan showed an increase (Zeng et al, 2000; pmid:10799851). To study the expression of CD1 on B cell subsets from normal and b2m2/2 mice, single-cell suspensions of lymphoid cells from C57BL/6 and BALB/c mice were used for immunofluorescence using the mouse version of this antibody (Amano et al, 1998; pmid:9712035). To elucidate the location of expression of CD1 flow cytometry was performed on thymocytes from wild-type,

b2m-deficient, and TAP-1-deficient C57BL/6 mice (Roark et al, 1998; PMID:9531266).

Antibody First Published in: Brossay et al. Mouse CD1 is mainly expressed on hemopoietic-derived cells
J Immunol. 1997 Aug 1;159(3):1216-24. [PMID:9233616](https://pubmed.ncbi.nlm.nih.gov/9233616/)

Note on publication: New mAbs to mCD1 to investigate its tissue distribution were generated.

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.