Bulk Anti-Human CD1d (D5) Antibody

Product Code: ICH1177

Bulk anti-human CD1d antibody (D5)

Product Benefits:

ichorbio's bulk anti-human CD1d antibody (D5) is manufactured in a cGMP compliant, ISO Quality Standard 9001:2015 facility. ichorbio's low endotoxin antibodies have half the endotoxin of comparable antibodies from Bio X Cell at less than 1.0 EU/mg. If ichorbio's low endotoxin antibodies are not low enough we also offer ultra low endotoxin antibodies which have even less endotoxin (0.5EU/mg) at an even higher purity (98% versus 95%). ichorbio: the best antibodies for *in vivo* research.

Target:

CD1d

Other Names:

R3G1

Clone:

D5

Size:

ichorbio's anti-human CD1d antibody (D5) is available in the following bulk sizes: 1mg, 5mg, 25mg, 50mg and 100mg ichorbio regularly manufactures multi-gram amounts of our anti-CD1d D5 clone - please contact us for pricing.

Isotype:

Mouse IgG2b

Uniprot:

P15813

Host:

Mouse

Species Reactivity:

Human

Specificity:

Clone D5 recognizes an epitope on human CD1d.

Purification Method:

This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

Antigen Distribution:

CD1d is expressed on monocytes, DCs, macrophages, and epithelial cells.

Background:

CD1d antibody, clone D5, recognizes human CD1d, also known as CD1.1 and Ly-38, a 48 kDa type 1 membrane glycoprotein that belongs to the cluster of differentiation 1 (CD1) family of glycoproteins. CD1d is expressed on epithelial cells and monocyte-derived antigen presenting cells (APCs), including monocytes, DCs, and macrophages. CD1d is an MHC class I-like molecule involved in the presentation of lipid antigens, such as α-galactosylceramide (α-GalCer), to a highly conserved T cell subset, named invariant natural killer T (iNKT) cells or CD1d-restricted T cells1. Following activation, iNKT cells rapidly proliferate and produce large amounts of cytokines and cytolytic mediators.

Immunogen:

CD1d a1-a2 domains.

Concentration:

>2.0 mg/ml

Formulation:

Anti-human CD1d antibody (D5) is aseptically packaged and formulated in 0.01 M phosphate buffered saline (PBS) pH 7.2 - 7.4, 150 mM NaCl with no carrier protein, potassium or preservatives added. BSA and azide free

Purity:

>95% by SDS-PAGE and HPLC

>98% by SDS-PAGE and HPLC

Endotoxin:

≤ 1.0 EU/mg as determined by the LAL method

≤ 0.75 EU/mg as determined by the LAL method

Aggregation:

Aggregation level ≤ 5%

Aggregation level ≤ 1%

IMPACT Pathogen Test:

We use the IMPACT test generated by IDEXX Laboratories to guarantee our Ultra Low Endotoxin antibodies are pathogen free. Our mouse antibodies are tested for: Mycoplasma spp. Mycoplasma pulmonis Sendai virus Mouse hepatitis virus Pneumonia virus of mice Minute virus of mice Mouse parvovirus (MPV1-5) Theiler's murine encephalomyelitis virus Murine norovirus Reovirus 3 Mouse rotavirus Ectromelia virus Lymphocytic choriomeningitis virus Polyoma virus Lactate dehydrogenase-elevating virus Mouse adenovirus (MAD1, MAD2) Mouse cytomegalovirus K virus Mouse thymic virus Hantaan virus Corynebacterium bovis Corynebacterium spp. (HAC2)

Storage:

This antibody is stable for at least 4 weeks when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at – 20°C or -80°C. Avoid repeated freeze thaw cycles.

Applications:

Immunoprecipitation, Western Blot

Application Notes:

Each investigator should determine their own optimal working dilution for specific applications.

Use:

Products are for research use only.

Alternative Names:

- BHLHE32 antibody
- bHLHe32 antibody
- Class E basic helix-loop-helix protein 32 antibody
- CMM8 antibody
- Homolog of mouse microphthalmia antibody
- Mi antibody
- Microphthalmia associated transcription factor antibody
- Microphthalmia, mouse, homolog of antibody
- Microphthalmia-associated transcription factor antibody
- MITF antibody
- MITF_HUMAN antibody
- mitfa antibody
- nacre antibody
- WS2 antibody
- WS2A antibody
- z3A.1 antibody