Bulk Anti-Human CD11a (38) Antibody

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Product Benefits:

ichorbio's anti-human CD11a antibody (38) 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:

CD11a

Clone:

38

Isotype:

Mouse IgG2a

Other Names:

LFA-1 alpha, LFA-1A, Integrin alpha-L, ITGAL

Uniprot:

P20701

Host:

Mouse

Species Reactivity:

Human

Specificity:

Anti-human CD11a antibody (38) recognizes Human CD11a. Anti-Human CD11a (Anti-LFA-1a) recognizes the (Mr 175 kDa) a chain of the leukocyte function associated antigen-1 (LFA-1). The leukocyte integrin LFA-1 is a member of a family of heterodimeric receptors that mediate divalent cation-dependent cellular adhesion reactions. LFA-1A binds to domain 1 of an intercellular adhesion molecule (ICAM) on target tissues.

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:

The CD11a antigen is present on most leukocytes and plays a vital role in cellular immune responses which require adhesion. Lymphocyte activation via the T-cell antigen receptor (TCR) up-regulates LFA-1 function. The absence of LFA-1A or B may induce the disease state known as leukocyte adhesion deficiency (LAD). Tumor cells which do not express LFA-1 may have avoided cellular immune-responses such as those carried out by natural killer cells (NK).

Background:

Anti-CD11a may be used to study a variety of biological phenomena related to the function of cell adhesion molecules. This antibody may be used to study transplantation rejections and to assist in characterizing lymphomas and leukemias.

Immunogen:

Unknown

Concentration:

1.0 - 5.0 mg/ml

Formulation:

0.01 M phosphate buffered saline (PBS) pH 7.2, 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%

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:

Flow Cytometry, Western Blot, IHC (Frozen), Immunofluorescence, Immunoprecipitation

Application Notes:

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

Use:

Products are for research use only.

Isotype Control:

Mouse IgG2a In Vivo Isotype Control - Low Endotoxin [C1.18.4] (ICH2245)

Antibodies against the same target:

Anti-CD11a In Vivo Antibody - Low Endotoxin [FD441.8] (ICH1047), Anti-CD11a In Vivo Antibody - Low Endotoxin [I21/7] (ICH1048)