

# Bulk Anti-Human CD11a (38) Antibody

**Product Code:** ICH1006

**Bulk anti-human CD11a antibody (38)**

## **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:**

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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:**

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**Isotype Control:**

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[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 \[I21/7\] \(ICH1048\)](#)