

Bulk Anti-Human CD18 (IB4) Antibody

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Product Benefits:

ichorbio's bulk anti-Human CD18 Antibody (IB4) is manufactured in a cGMP compliant, ISO Quality Standard 9001:2015 facility.

Target:

CD18

Other Names:

Integrin beta-2, integrin beta chain, beta 2, ITGB2

Clone:

IB4

Size:

ichorbio's anti-Human CD18 antibody is available in the following bulk sizes: 5mg, 25mg, 50mg and 100mg. ichorbio regularly manufactures multi-gram amounts of our anti-CD18 clone IB4 - please contact us for pricing.

Isotype:

Mouse IgG2a kappa

Host:

Mouse

Species Reactivity:

Human

Specificity:

Anti-CD18 antibody (clone IB4) activity is directed against human CD18 and can also stain rabbit bone marrow leukocytes.

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:

Depending on its heterodimeric configuration, CD18 is expressed in leukocytes, monocytes, macrophages, some lymphocytes, polymorphonuclear lymphocytes (PMNs), natural killer cells, neutrophils, granulocytes, certain lymphocytic tumor cell lines, macrophage foam cells, activated platelets, and splenic red pulp macrophages.

Background:

Murine (m) IB4 was humanized (h) by the CDR-grafting method to create an anti-CD18 antibody with similar avidity, specificity, and efficacy as the murine antibody. In rhesus monkeys, h1B4 is less immunogenic than m1B4 and elicits only anti-idiotypic antibodies. Additionally, h1B4 and m1B4 exhibit equivalent staining specificity and intensity in rabbit bone marrow leukocytes. For humanization, human VH and VL FR were chosen based on high identity with their corresponding m1B4 FR3. Once grafted with the m1B4 CDR, the human VH and VL FR were expressed as fusion proteins with the IgG4 and C γ human constant regions, respectively. The h1B4 monoclonal antibody has been used in multiple studies of adhesion in different model systems and to measure the expression of CD18 in B-ALL cell lines.

Immunogen:

Human peripheral blood lymphocytes.

Concentration:

>2.0 mg/ml

Formulation:

This monoclonal antibody 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%

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:

Functional Assays, Flow Cytometry, Immunofluorescence Microscopy, IHC-Frozen, IHC-Paraffin, Western Blot

Application Notes:

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

Use:

Products are for research use only.

Alternate Names:

- DKFZp667A205 antibody
- ENSMUSG00000071552 antibody
- FLJ39873 antibody
- RGD1563191 antibody
- T cell immunoreceptor with Ig and ITIM domains antibody
- TIGIT antibody
- TIGIT_HUMAN antibody
- V-set and immunoglobulin domain containing 9 antibody
- V-set and immunoglobulin domain-containing protein 9 antibody
- V-set and transmembrane domain containing 3 antibody
- V-set and transmembrane domain-containing protein 3 antibody
- VSIG9 antibody
- VSTM3 antibody
- Washington University cell adhesion molecule antibody
- WUCAM antibody