Anti-Mouse CD318 (9a2) In Vivo Antibody - Low Endotoxin

Product Code: ICH1165

Bulk anti-CD318 In Vivo Antibody - Low Endotoxin (9a2)

Product Benefits:

ichorbio's anti- CD318 In Vivo Antibody - Low Endotoxin (9a2) 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:

CD318

Clone:

9a2

Isotype:

Mouse IgG2b κ

Other Names:

CDCP1, CUB domain-containing protein 1, SIMA135

Uniprot:

Q9H5V8

Host:

Mouse

Species Reactivity:

Human/Mouse

Specificity:

Clone 9A2 recognizes an epitope within the extracellular domain of human/mouse CDCP1

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:

CDCP1 is widely expressed in the esophagus, skin, colon, duodenum, stomach and other tissues.

Background:

CDCP1 is a transmembrane glycoprotein of molecular weight 140 kDa. CDCP1 is a ligand for a receptor molecule (CD6) that is expressed on some T-cells and is thought to be involved in T-cell migration and chemotaxis. It has a large extracellular domain that includes two CUB domains, and a smaller intracellular domain. The smaller intracellular domain contains five tyrosine residues (Y707, Y734, Y743, Y762 and Y806). CDCP1 is cleaved next to Arg368 (at the extracellular domain) by serine proteases. This cleavage yields a truncated molecule with a molecular weight of 80 kDa.1 CDCP1 is not typically cleaved In vivo. However, its cleavage can be induced during tumorigenesis or tissue injury.2 CDCP1 acts as a substrate for Src family kinases which exclusively mediate the phosphorylation of CDCP1. In cultured cells, tyrosine phosphorylation of CDCP1 transpires when cells are stimulated to detach via trypsin or EDTA. This detachment is associated with the phosphorylation of CDCP1 along with the simultaneous dephosphorylation of focal adhesion proteins. Conversely, during cellular attachment, CDCP1 is dephosphorylated, while focal adhesion proteins are simultaneously phosphorylated. Furthermore, CDCP1 is suspected to play a role in autoimmune diseases such as encephalomyelitis, multiple sclerosis and inflammatory arthritis.

Concentration:

1.0 mg/ml

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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%

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:

Flow Cytometry

Application Notes:

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

Use:

Products are for research use only.

Alternative Names:

- class 2 antibody
- Lymphoid restricted immunoglobulin octamer binding protein antibody
- Lymphoid-restricted immunoglobulin octamer-binding protein NF-A2 antibody
- NF A2 antibody
- Oct 2 antibody
- Oct-2 antibody
- Octamer binding transcription factor 2 antibody
- Octamer-binding protein 2 antibody
- Octamer-binding transcription factor 2 antibody
- OTF-2 antibody
- OTF2 antibody
- PO2F2_HUMAN antibody
- POU domain antibody
- POU domain class 2 transcription factor 2 antibody
- POU2F2 antibody
- transcription factor 2 antibody