



Anti-Mouse CD44 In Vivo Antibody – Low Endotoxin (IM7) [ICH1115]

Description

Bulk anti-CD44 In Vivo Antibody – Low Endotoxin (IM7)

Bio X Cell:

ICH1115 is [up to 30% cheaper](#) for academia & non-profits and [up to 55% cheaper](#) for industry than the equivalent product BE0039 from Bio X Cell.

Product Benefits:

ichorbio's anti-CD44 In Vivo Antibody – Low Endotoxin (IM7) is manufactured in a cGMP compliant facility. ichorbio's low endotoxin antibodies have half the endotoxin of comparable antibodies from our [competitors](#) 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 (<0.75EU/mg) at an even higher purity (98% versus 95%). ichorbio: the best antibodies for *in vivo* research.

Target:

CD44

Clone:

IM7

Size:

ichorbio's IM7 *in vivo* antibody is available in the following bulk sizes:

1mg, 5mg, 25mg, 50mg and 100mg

ichorbio regularly manufactures multi-gram amounts of our anti-CD44 IM7 clone – please contact us for pricing.

Isotype:

Rat IgG2b

Other Names:

Extracellular matrix receptor III, ECMR-III, GP90 lymphocyte homing/adhesion receptor, HUTCH-I, Hermes antigen, Hyaluronate receptor, Lymphocyte antigen 24, Ly-24, Phagocytic glycoprotein 1, PGP-1, Phagocytic glycoprotein I, PGP-I

Uniprot:

[P15379](#)

Host:

Rat

Species Reactivity:

Mouse

Specificity:

Anti-CD44 In Vivo Antibody – Low Endotoxin (IM7) recognizes an epitope common to alloantigens & all isoforms of CD44, that is located between amino acids 145 and 186

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 CD44 antigen is present on B-cells, monocytes, macrophages and certain subsets of thymocytes and peripheral T-cells. Mice with the Ly-24.1 allotype have high densities of CD44+ T-cells, while Ly-24.2 strains are low expressors. The antibody cross reacts with: Ms+, Hu+, Bov+, Mky+, Bab+, Dog+, Cat, Porcine

Background:

CD44 is a 80-95 kD glycoprotein also known as Hermes, Pgp1, H-CAM, or HUTCH. It is expressed on all leukocytes, endothelial cells, hepatocytes, and mesenchymal cells. As B and T cells become activated or progress to the memory stage, CD44 expression increases from low or mid levels to high levels. Clone IM7 antibody has been shown to neutralize CD44 in vivo

Immunogen:

Dexamethasone-induced myeloid leukemia M1 cells

Concentration:

0.5 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%

IMPACT Pathogen Test:

We use the IMPACT test generated by IDEXX Laboratories to guarantee our Ultra Low Endotoxin antibodies are pathogen free. Our rat antibodies are tested for:

Mycoplasma spp

Mycoplasma pulmonis

Pneumonia virus of mice

Kilham's rat virus

Toolan's H1 virus

Rat parvovirus

Lymphocytic choriomeningitis virus

Rat cytomegalovirus

Sendai virus

Rat coronavirus

Sialodacryoadenitis virus

Rat minute virus

Seoul virus

Mouse adenovirus

Reovirus 3

Rat theilovirus

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, Flow Cytometry, CyTOF, IHC (Frozen), ELISA, Functional Assays

Application Notes:

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

Use:

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

Isotype Control:

[Rat IgG2b In Vivo Isotype Control – Low Endotoxin \[1-2\] \(ICH2243\)](#)