Anti-Mouse Galectin-9 (RG9-1) In Vivo Antibody - Low Endotoxin

Anti-Mouse Galectin-9 In Vivo Antibody - Low Endotoxin (RG9-1)

Bio X Cell:

ICH1186 is up to 37% cheaper for industry than the equivalent product BE0218 from Bio X Cell.

Product Benefits:

ichorbio's Anti-Mouse Galectin-9 In Vivo Antibody - Low Endotoxin (RG9-1) [ICH1186] 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:

Galectin-9

Clone:

RG9-1

Size:

ichorbio's RG9-1 *in vivo* antibody is available in the following bulk sizes: 5mg, 25mg, 50mg and 100mg. ichorbio regularly manufactures multi-gram amounts of our anti-mouse Galectin-9 RG9-1 clone - please contact us for pricing.

Isotype:

IgG2b kappa

Other Names:

Gal-9

Host:

Rat

Species Reactivity:

Mouse

Antigen Distribution:

Galectin-9 is expressed by many cell types, including T cells, B cells, macrophages, dendritic cells, astrocytes, mast cells, eosinophils, fibroblasts, endothelial cells, and epithelial cells.

Background:

Galectin-9 (Gal-9), a member of the galectin family of mammalian lectins, binds ?-galactoside. Gal-9 is expressed by many cell types, including endothelial cells, the epithelium of the gastrointestinal tract, T cells, B cells, macrophages, and mast cells. Gal-9 plays a significant role in innate and adaptive immunity and regulates excessive immunity by suppressing interleukin (IL)-17 producing effector T helper cells (Th)17 and Th1 as well as by augmenting Foxp3+ regulatory T cells (Treg). In addition, Gal-9 induces monocytic myeloid-derived suppressor cells (MDSCs), granulocytic MDSCs, and plasmacytoid dendritic cell-like macrophages. Gal-9 also suppresses B cell receptor signaling and is regulated by I-branching of N-glycans. Additionally, Gal-9 stimulates the maturation of dendritic cells.

Gal-9 is thought to function by binding to specific carbohydrate moieties in receptor molecules expressed on the surface of its target cells, including the T-cell immunoglobulin- and mucin-domain-containing molecule-3 (Tim-3). Gal-9 is predominantly located in the cytoplasm but can also be secreted. Gal-9 is expressed by a variety of tumor cells, plays a role in tumor immunity, and can suppress tumor metastasis by blocking adhesion to endothelium and extracellular matrices. CD45, which regulates antigen receptor signaling, is a major glycoprotein receptor for Gal-9 on naive B cells. **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%

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:

Anti-mouse Galectin-9 In Vivo Antibody - Low Endotoxin (RG9-1) is stable for at least one week when stored sterile at 2-8°C. For long term storage aseptically aliquot in working volumes without diluting and store at –20°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

Applications:

Blocking

Application Notes:

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

Use:

Products are for research use only.

Isotype Control:

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