Bulk Anti-Human CD119 (GIR 208) Antibody

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Product Benefits:

ichorbio's bulk anti-human CD119 antibody (GIR 208) is manufactured in a cGMP compliant 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:

CD119

Clone:

GIR 208

Isotype:

Mouse IgG1

Other Names:

Interferon gamma receptor 1, IFN-gamma receptor 1, IFN-gamma-R1, CDw119, Interferon gamma receptor alpha-chain2, IFN-gamma-R-alpha

Uniprot:

P15260

Host:

Mouse

Species Reactivity:

Human

Specificity:

Bulk anti-human CD119 antibody (GIR 208) recognizes Human IFN gamma R alpha

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 IFN-gamma receptor is expressed at moderate levels on virtually every cell with the exception of erythrocytes.

Background:

Interferon-gamma (IFN-gamma) exerts its biologic effects by interacting with a single high affinity receptor, IFN-gamma receptor. This receptor is present on almost all cell types except mature erythrocytes. The IFN-gamma receptor consists of two polypeptide chains alpha and beta and requires association of JAK1, JAK2 and Stat1 for IFN-gamma signal transduction. In signal transduction, IFN-gamma induces tyrosine phosphorylation of IFN-gamma receptor alpha (IFNGR1) leading to the formation of a docking site on the activated receptor for Stat1, which specifically activates IFN-gamma induced gene transcription. The IFN-gamma receptor is structurally related to the recently cloned IL-10 receptor. GIR 208 binds IFNGR1 and blocks binding of IFN-gamma to the receptor.

Immunogen:

Human IFN-gamma R alpha, Purified from human placenta

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:

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, ELISA, Neutralization, Flow Cytometry

Application Notes:

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

Use:

Products are for research use only.

Isotype Control:

Mouse IgG1 Isotype Control for In Vivo - Low Endotoxin [HKSP] (ICH2247)