Anti-Mouse IFN Beta (MIB-5E9.1) In Vivo Antibody - Low Endotoxin

Product Code: ICH1124

Bulk anti-IFN beta In Vivo Antibody - Low Endotoxin (MIB-5E9.1)

Product Benefits:

ichorbio's anti-IFN beta In Vivo Antibody - Low Endotoxin (MIB-5E9.1) 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:

IFN beta

Clone:

MIB-5E9.1

Isotype:

Armenian Hamster IgG

Other Names:

IFN-b, IFN-beta, Type-1 interferon, Interferon beta

Host:

Armenian Hamster

Species Reactivity:

Mouse

Specificity:

Anti-IFN beta In Vivo Antibody - Low Endotoxin (MIB-5E9.1) recognizes Mouse IFN beta

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:

Fibroblasts & epithelial cells

Background:

Interferons (IFN) consist of two classes. The type I IFN class consists of 20 highly similar IFN-alpha proteins and a single IFN-beta protein. The second class, type II IFN, consists of a single protein, IFN-gamma. IFN-alpha and IFN-beta signal through the same cell surface receptor IFNAR1 and have a similar range of biological activities including antiviral and antiproliferative activity. The type I IFNs also influence activation, growth and differentiation of T cells, B cells, macrophages, NK cells and other cell types such as endothelial cells and fibroblasts. IFN-beta has recently proven to be beneficial in patients with multiple sclerosis and could also be a potential therapy for rheumatoid arthritis. It is unclear what cellular mechanisms are involved in IFN-beta’s therapeutic effects, but they may be caused by a restoration of balance between pro- and anti-inflammatory cytokines.

Concentration:

1.0 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%

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, Neutralisation, Blocking

Application Notes:

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

Use:

Products are for research use only.

Isotype Control:

Armenian Hamster IgG Isotype Control for In Vivo - Low Endotoxin [PIP] (ICH2251)

Antibodies against the same target:

Anti-IFN beta In Vivo Antibody - Low Endotoxin [HDB-4A7] (ICH1110), Anti-IFN beta In Vivo Antibody - Ultra Low Endotoxin [HDB-4A7] (ICH1110UL)