

# Anti-IFN Beta (HDB-4A7) In Vivo Antibody - Low Endotoxin

**Bulk anti-IFN beta In Vivo Antibody - Low Endotoxin (HDB-4A7)**

## Product Specific Citations:

Mine et al. TYK2 signaling promotes the development of autoreactive CD8+ cytotoxic T lymphocytes and type 1 diabetes. Nature Communications volume 15, Article number: 1337 (2024)

## Bio X Cell:

ICH1110 is [up to 37% cheaper](#) for industry than the equivalent product BE0102 from Bio X Cell.

## Product Benefits:

ichorbio's anti-IFN beta In Vivo Antibody - Low Endotoxin (HDB-4A7) is manufactured in a cGMP compliant. 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:

HDB-4A7

## Size:

ichorbio's HDB-4A7 *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-interferon beta HDB-4A7 clone - please contact us for pricing.

## Isotype:

Mouse IgG2a

## Other Names:

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

**Host:**

Mouse

**Species Reactivity:**

Mouse

**Specificity:**

Anti-IFN beta In Vivo Antibody - Low Endotoxin (HDB-4A7) recognizes an epitope on Mouse IFN-beta and binds specifically to murine IFNbeta and does not bind murine IFNg or several different IFNa species (a-1,4,5 or 13); HDb-4A7 binds both recombinant and natural forms

**Purification Method:**

This antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

**Immunogen:**

Plasmid DNA encoding murine IFNb

**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:**

Western Blot, Blocking, Functional Assays

## **Application Notes:**

Blocking: Blocks in vivo IFN $\beta$  leading to increased the lethality of mice infected with West Nile Virus (WNV), similar to the susceptibility of IFN $\beta$ -/- mice. Clone HDB-4A7 circulates with a half-life of ~ 14 days. Each investigator should determine their own optimal working dilution for specific applications.

## **Use:**

Products are for research use only.

## **Isotype Control:**

[Mouse IgG2a In Vivo Isotype Control - Low Endotoxin \[C1.18.4\] \(ICH2245\)](#)

## **Antibodies against the same target:**

[Anti-IFN beta In Vivo Antibody - Low Endotoxin \[MIB-5E9.1\] \(ICH1124\)](#)