

Anti-CTLA-4 (9H10) In Vivo Antibody - Low Endotoxin

Product Code: ICH1084

Bulk anti-CTLA-4 In Vivo Antibody - Low Endotoxin (9H10)

Product Specific Citations:

[Rodriguez-Baena, Francisco Javier et al. Microglial reprogramming enhances antitumor immunity and immunotherapy response in melanoma brain metastases. Cancer Cell, Volume 43, Issue 3, 413 - 427.e9](#)

Bio X Cell:

ICH1084 is [up to 47% cheaper](#) for industry than the equivalent low endotoxin product (BE0131) and up to 39% cheaper for the ultra-low endotoxin product (BP0131) from Bio X Cell. The low endotoxin version is up to 19% cheaper for academia, whilst the ultra-low endotoxin product is up to 7%. **Product Benefits:**

ichorbio's anti-CTLA-4 In Vivo Antibody - Low Endotoxin (9H10) 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:

CTLA-4

Clone:

9H10

Size:

ichorbio's 9H10 *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-CTLA-4 9H10 clone - please contact us for pricing.

Isotype:

Syrian Hamster IgG

Other Names:

Ctla4, Cytotoxic T-lymphocyte protein 4, CD152

Uniprot:

[P09793](#)

Host:

Syrian Hamster

Species Reactivity:

Mouse

Specificity:

Anti-CTLA-4 In Vivo Antibody - Low Endotoxin (9H10) recognizes an epitope on Mouse CTLA-4

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:

Activated T cells

Background:

CTLA4 (Cytotoxic T-Lymphocyte Antigen 4) also known as CD152, is a protein which is expressed on the surface of Helper T cells and plays an important regulatory role in the

immune system. CTLA4 is a member of the immunoglobulin superfamily, expressed on the surface of Helper T cells. CTLA4 transmits an inhibitory signal to T cells. CTLA4 is potentially therapeutic in auto-immune diseases⁴, such as rheumatoid arthritis, HIV, autoimmune thyroid disease, multiple sclerosis and may also be useful during organ transplantation and cancer treatment. Clone 9H10 antibody has been shown to promote T cell co-stimulation by blocking CTLA4 binding, allowing for CD28 binding.

Immunogen:

Mouse CTLA-4-human IgG1 fusion protein

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

≤ 0.5 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 hamster antibodies are tested for: Mycoplasma

spp Mycoplasma pulmonis Pneumonia virus of mice Kilham's rat virus Toolan's H1 virus
Hamster parvovirus Lymphocytic choriomeningitis Minute virus of mice Theiler's murine
encephalomyelitis virus Sendai virus Reovirus 3 Hantaan virus

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, ELISA, Flow Cytometry

in vivo

We recommend using between 50-250µg per mouse when performing *in vivo* research using ichorbio's CTLA-4 low endotoxin antibody clone 9H10. This range is based off the most recent publication data using the 9H10 clone.

Application Notes:

Each investigator should determine their own optimal working dilution for specific applications. A [number of studies](#) have used 100ug per injection for T-cell modulation *in vivo*.

Use:

Products are for research use only.

Isotype Control:

[Syrian Hamster IgG Isotype Control for In Vivo - Low Endotoxin \[ICH2253\]](#)

Antibodies against the same target:

[Anti-CTLA-4 In Vivo Antibody - Low Endotoxin \[UC10-4F10-11\] \(ICH1085\)](#), [Anti-CTLA-4 In Vivo Antibody - Low Endotoxin \[9D9\] \(ICH1096\)](#), [Anti-CTLA-4 In Vivo Antibody - Ultra Low Endotoxin \[9D9\] \(ICH1096UL\)](#)

Alternative Names:

- HNRNPA 1 antibody
- Helix destabilizing protein antibody
- Helix-destabilizing protein antibody
- Heterogeneous nuclear ribonucleoprotein A1 antibody
- Heterogeneous nuclear ribonucleoprotein A1B protein antibody
- Heterogeneous nuclear ribonucleoprotein B2 protein antibody
- Heterogeneous nuclear ribonucleoprotein core protein A1 antibody
- hnRNP A1 antibody
- hnRNP core protein A1 antibody
- HNRNPA1 antibody
- HNRPA1 antibody
- MGC102835 antibody
- Nuclear ribonucleoprotein particle A1 protein antibody
- Single strand DNA binding protein UP1 antibody
- Single strand RNA binding protein antibody
- Single-strand RNA-binding protein antibody