

# Anti-Mouse CTLA-4 (9D9) In Vivo Antibody - Low Endotoxin

**Product Code:** ICH1096

**Bulk anti-CTLA-4 In Vivo Antibody - Low Endotoxin (9D9)**

## Product Specific Citations:

[Ye, J.; Intratumoral Delivery of Interleukin 9 via Oncolytic Vaccinia Virus Elicits Potent Antitumor Effects in Tumor Models. \*Cancers\* 2024, 16, 1021.](#)

[Ye, Junjie et al. Oncolytic vaccinia virus expressing non-secreted decoy-resistant IL-18 mutein elicits potent antitumor effects with enhanced safety. \*Molecular Therapy Oncology\*, Volume 33, Issue 3, 201022](#)

[Braun, Lukas M. et al. Adiponectin reduces immune checkpoint inhibitor-induced inflammation without blocking anti-tumor immunity. \*Cancer Cell\*, Volume 43, Issue 2, 269 - 291.e19](#)

## Bio X Cell:

ICH1096 is [up to 19% cheaper](#) for academia & non-profits and [up to 47% cheaper](#) for industry than the equivalent product from Bio X Cell (BE0164). ICH1096UL (ultra-low endotoxin) is up to 7% cheaper for academia and up to 39% cheaper for industry than BP0164.

## Product Benefits:

ichorbio's anti-CTLA-4 In Vivo Antibody - Low Endotoxin (9D9) 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:**

CTLA-4

**Clone:**

9D9

**Size:**

ichorbio's 9D9 *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 9D9 clone - please contact us for pricing.

**Isotype:**

Mouse IgG2b

**Other Names:**

Ctla4, Cytotoxic T-lymphocyte protein 4, CD152

**Uniprot:**

[P09793](#)

**Host:**

Mouse

**Species Reactivity:**

Mouse

**Specificity:**

Anti-CTLA-4 In Vivo Antibody - Low Endotoxin (9D9) 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:**

Negative regulator of T cell activation

**Immunogen:**

Unknown

**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:**

$\leq 1.0$  EU/mg as determined by the LAL method

$\leq 0.75$  EU/mg as determined by the LAL method

**Aggregation:**

Aggregation level  $\leq 5\%$

Aggregation level  $\leq 1\%$

**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, Functional Assays

### ***in vivo***

We recommend using between 50-250µg per mouse when performing *in vivo* research using ichorbio's CTLA-4 low endotoxin antibody clone 9D9. This range is based off the most recent publication data using the 9D9 clone *in vivo*.

### **Application Notes:**

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

### **Use:**

Products are for research use only.

### **Isotype Control:**

[Mouse IgG2b Isotype Control for In Vivo - Low Endotoxin \[MPC-11\] \(ICH2250\)](#)

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

[Anti-CTLA-4 In Vivo Antibody - Low Endotoxin \[9H10\] \(ICH1084\)](#), [Anti-CTLA-4 In Vivo Antibody - Low Endotoxin \[UC10-4F10-11\] \(ICH1085\)](#), [Anti-CTLA-4 In Vivo Antibody - Ultra Low Endotoxin \[9H10\] \(ICH1084UL\)](#)

## Alternative Names:

- EC 2.7.10.1 antibody
- flt 4 antibody
- FLT-4 antibody
- FLT4 antibody
- FLT41 antibody
- Fms related tyrosine kinase 4 antibody
- Fms-like tyrosine kinase 4 antibody
- LMPH1A antibody
- PCL antibody
- Soluble VEGFR3 variant 1 antibody
- Soluble VEGFR3 variant 2 antibody
- Soluble VEGFR3 variant 3 antibody
- Tyrosine protein kinase receptor FLT4 antibody
- Tyrosine-protein kinase receptor FLT4 antibody
- Vascular endothelial growth factor receptor 3 antibody
- Vascular endothelial growth factor receptor 3 precursor antibody
- VEGF R3 antibody
- VEGFR 3 antibody
- VEGFR-3 antibody
- VEGFR3 antibody