

Anti-CD278 (7E.17G9) In Vivo Antibody - Low Endotoxin

Bulk anti-CD278 In Vivo Antibody - Low Endotoxin (7E.17G9)

Product Benefits:

ichorbio's anti-CD278 In Vivo Antibody - Low Endotoxin (7E.17G9) 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:

CD278

Clone:

7E.17G9

Isotype:

Rat IgG2b

Other Names:

Inducible T-cell costimulator, Icos, Activation-inducible lymphocyte immunomediatory molecule, CD28 and CTLA-4-like protein, CCLP, CD28-related protein 1, CRP-1, Ailim

Uniprot:

[Q9WVS0](#)

Host:

Rat

Species Reactivity:

Mouse

Specificity:

Anti-CD278 In Vivo Antibody - Low Endotoxin (7E.17G9) recognizes an epitope on Mouse ICOS

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.

Background:

Inducible co-stimulator (ICOS), also called ALIM and H4, is a homodimeric protein and member of the CD28 family of immune co-stimulatory receptors. Other family members are CD28, CTLA-4 and PD-1. ICOS enhances all basic T cell responses to a foreign antigen, namely proliferation, secretion of lymphokines, up-regulation of molecules that mediate cell-cell interaction, and effective help for antibody secretion by B cells. Unlike the constitutively expressed CD28, ICOS has to be de novo induced on the T cell surface, does not up-regulate the production of IL-2, but superinduces the synthesis of IL-10, a B cell-differentiation factor. In vivo, ICOS is highly expressed on tonsillar T cells, which are closely associated with B cells in the apical light zone of germinal centres, the site of terminal B cell maturation. ICOS regulates CD28-dependent and CD28-independent CD4 (+) subset (Th1 and Th2) responses. It is a major regulator of the adaptive immune system and therefore, has a protective role in inflammatory autoimmune diseases.

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 rat antibodies are tested for: Mycoplasma spp Mycoplasma pulmonis Pneumonia virus of mice Kilham's rat virus Toolan's H1 virus Rat parvovirus Lymphocytic choriomeningitis virus Rat cytomegalovirus Sendai virus Rat coronavirus Sialodacryoadenitis virus Rat minute virus Seoul virus Mouse adenovirus Reovirus 3 Rat theilovirus

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, 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:

[Rat IgG2b In Vivo Isotype Control - Low Endotoxin \[1-2\] \(ICH2243\)](#)

Alternative Names:

- Activation inducible lymphocyte immunomediatory molecule antibody
- Activation-inducible lymphocyte immunomediatory molecule antibody
- AILIM antibody
- CD278 antibody
- CD278 antigen antibody
- CD28-related Protein-1 antibody
- CRP1 antibody
- CVID1 antibody
- ICOS antibody
- Inducible costimulator antibody
- Inducible T cell co stimulator antibody
- Inducible T-cell costimulator antibody
- MGC39850 antibody