

Anti-CD4 (GK1.5) In Vivo Antibody - Low Endotoxin

Product Code: ICH1042

Bulk anti-CD4 In Vivo Antibody - Low Endotoxin (GK1.5)

Product Specific Citations:

[Cao et al. Injectable hydrogel loaded with lysed OK-432 and doxorubicin for residual liver cancer after incomplete radiofrequency ablation. Journal of Nanobiotechnology](#)

Bio X Cell:

ICH1042 is [up to 37% cheaper](#) for industry than the equivalent products BE0003-1 (low endotoxin) and BP0003-1 (ultra-low endotoxin) from Bio X Cell. **Product Benefits:**

ichorbio's anti-CD4 In Vivo Antibody - Low Endotoxin (GK1.5) 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:

CD4

Clone:

GK1.5

Size:

ichorbio's GK1.5 *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-CD4 GK1.5 clone - please contact us for pricing.

Isotype:

Rat IgG2b

Other Names:

T-cell differentiation antigen L3T4, T-cell surface antigen T4/Leu-3

Host:

Rat

Species Reactivity:

Mouse

Specificity:

Anti-CD4 In Vivo Antibody - Low Endotoxin (GK1.5) recognizes an epitope on Mouse CD4

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:

The L3T4 antigen is expressed by the helper/inducer subset of mouse T-cells. The antigen is present on approximately 80% of thymocytes, 20% of spleen cells and 60% of lymph node cells. The expression of L3T4 correlates with class II MHC antigen reactivity on cloned T-cell lines.

Background:

CD4 (cluster of differentiation 4) is a glycoprotein expressed on the surface of T helper cells, regulatory T cells, monocytes, macrophages, and dendritic cells. CD4 interacts with class II molecules of the major histocompatibility complex (MHC) enhancing the signal for T-cell activation.

Immunogen:

Mouse CTL clone V4

Concentration:

≥ 2.0 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, Flow Cytometry, IHC (Frozen), Immunoprecipitation

Application Notes:

Blocking: Anti-Mouse CD4 (clone GK1.5) is useful for In vitro and In vivo studies of T-helper cell functions including blocking of ligand binding and T-helper cell activation. 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:

- CD 4 antibody
- CD4 (L3T4) antibody
- CD4 antibody
- CD4 antigen (p55) antibody
- CD4 antigen antibody
- CD4 molecule antibody
- CD4 receptor antibody
- CD4+ Lymphocyte deficiency, included antibody
- CD4mut antibody
- L3T4 antibody
- Leu3 antibody
- Ly-4 antibody
- Lymphocyte antigen CD4 antibody
- MGC165891 antibody
- OTTHUMP00000238897 antibody
- p55 antibody
- T cell antigen T4 antibody
- T cell antigen T4/LEU3 antibody
- T cell differentiation antigen L3T4 antibody
- T cell OKT4 deficiency, included antibody

- T cell surface antigen T4/Leu 3 antibody
- T cell surface antigen T4/Leu3 antibody
- T cell surface glycoprotein CD4 antibody
- T-cell surface antigen T4/Leu-3 antibody
- T-cell surface glycoprotein CD4 antibody
- W3/25 antibody
- W3/25 antigen antibody