

Bulk Anti-Human CD4 (OKT-4) Antibody

Bulk anti-human CD4 antibody (OKT-4)

Bio X Cell:

ICH1166 is [up to 37% cheaper](#) for industry than the equivalent product BE0003-2 from Bio X Cell. **Product Benefits:**

ichorbio's bulk anti-human CD4 antibody (OKT-4) 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:

OKT-4

Size:

ichorbio's OKT-4 *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 OKT-4 clone - please contact us for pricing.

Isotype:

Mouse IgG2b ?

Uniprot:

[P01730](#)

Host:

Mouse

Species Reactivity:

Human, Rhesus, Cynomolgus, Chimpanzee, Sooty Mangabey

Specificity:

Clone OKT4 recognizes Human CD4. This clone recognizes a different epitope than the RPA-T4 monoclonal antibody, and these antibodies do not interfere with each other

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:

CD4 is expressed on most thymocytes, a subset of T cells, and monocytes/macrophages, and may be detected in thymus, lymph nodes, tonsils, and spleen, and also in specific regions of the brain, gut, and other non-lymphoid tissues.

Background:

Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class II molecule:peptide complex. The antigens presented by class II peptides are derived from extracellular proteins while class I peptides are derived from cytosolic proteins. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class II presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. LCK then initiates different intracellular signaling pathways by phosphorylating various substrates ultimately leading to lymphokine production, motility, adhesion and activation of T-helper cells. In other cells such as macrophages or NK cells, plays a role in differentiation/activation, cytokine expression and cell migration in a TCR/LCK-independent pathway. Participates in the development of T-helper cells in the thymus and triggers the differentiation of monocytes into functional mature macrophages. (Microbial infection) Primary receptor for human immunodeficiency virus-1 (HIV-1). Down-regulated by HIV-1 Vpu. Acts as a receptor for Human Herpes virus 7/HHV-7.

Immunogen:

Human peripheral T cells

Concentration:

1.0 mg/ml

Formulation:

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (PBS) pH 7.2 - 7.4, 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:

ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry (Frozen), Immunoprecipitation, Neutralization, Western Blotting

Application Notes:

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

Use:

Products are for research use only.

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