

Bulk Anti-Human CD8 (UCHT-4) Antibody

Product Code: ICH1005

Bulk anti-human CD8 antibody (UCHT-4)

Product Benefits:

ichorbio's bulk anti-human CD8 antibody (UCHT-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:

CD8

Clone:

UCHT-4

Isotype:

Mouse IgG2a

Host:

Mouse

Species Reactivity:

Human

Specificity:

Anti-human CD8 antibody (UCHT-4) recognizes Human CD8. Anti-Human CD8 recognizes a T-cell glycoprotein cell surface complex (Mr 32 kDa) which defines the cytotoxic/suppressor

population of mature T-lymphocytes. The CD8 complex interacts with class I MHC molecules resulting in increased adhesion between CD8+ T-lymphocytes and their target cells. Binding of the CD8 antigen to Class I MHC molecules enhances T-cell activation. The cytoplasmic portion of the CD8 antigen is associated with a protein tyrosine kinase (p56lck).

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 CD8 antigen is expressed on approximately 19-48% of normal human peripheral blood lymphocytes and > 90% of normal thymocytes. It is also present on a subset of NK cells. Subjects infected with HIV have been shown to exhibit increased levels of CD8+ lymphocytes with a continual decrease in CD4+ lymphocytes.

Background:

Anti-CD8 may be used in studies of immunoregulation and T-lymphocyte mediated suppression, autoimmune disorders, immunodeficiency states and acute lymphoblastic leukemia and lymphoma.

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 $\leq 5\%$

Aggregation level $\leq 1\%$

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:

Flow Cytometry, Western Blot, Immunoprecipitation, Functional Assays, IHC, Immunofluorescence, ELISA

Application Notes:

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

Use:

Products are for research use only.

Isotype Control:

[Mouse IgG2a In Vivo Isotype Control - Low Endotoxin \[C1.18.4\] \(ICH2245\)](#)

Antibodies against the same target:

[Anti-CD8 In Vivo Antibody - Low Endotoxin \[YTS-169\] \(ICH1043\)](#), [Anti-CD8 In Vivo Antibody - Ultra Low Endotoxin \[YTS-169\] \(ICH1043UL\)](#)