

# Bulk Anti-Human CD8 (UCHT-4) Antibody

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 ? 5%

Aggregation level ? 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 \[YTS-169\] \(ICH1043UL\)](#)