Monoclonal Anti-Human CD3 Antibody, Mouse IgG1 (UCHT1)

Catalog # CDE-M532

Source

Monoclonal Anti-Human CD3 Antibody, Mouse IgG1 (UCHT1) is a monoclonal antibody recombinantly expressed from human 293 cells (HEK293), which provides higher batch consistency and long term security of supply.

Antibody Type

Recombinant Monoclonal

Clone

UCHT1

Isotype

Mouse IgG1, Kappa

Host Species

Mouse

Reactivity

Human

Immunogen

Purified Human CD3 Protein

Specificity

This product is a specific antibody specifically reacts with CD3.

Application

ELISA (Evaluation of levels of CD3 protein).

Flow Cytometry (Detection the expression of CD3 on Human cells).

Isotype Control

The isotype control is sold separately; please refer to Cat. No. **DNP-M1A1** for product information.

Form

Lyophilized

Formulation

Lyophilized from a 0.22 μm-filtered solution in PBS (pH 7.4), with trehalose as protectant.

Please contact us for customized product forms or formulations.

Reconstitution

Please refer to the Certificate of Analysis (CoA) for specific instructions.

Shipping

Lyophilized product is shipped at ambient temperature.

Storage

For long term storage, the product should be stored in a lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 24 months in lyophilized state;
- -70°C for 12 months under sterile conditions after reconstitution.

Notices

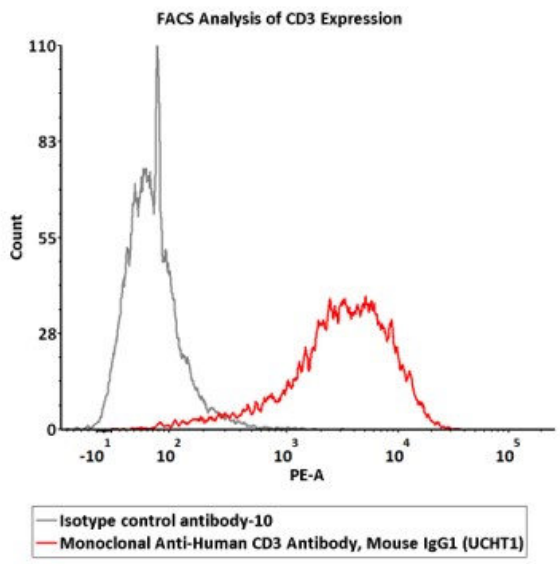
Product Specific Notices: For research use only.

ACRO Quality Management System

- QMS(ISO, GMP)

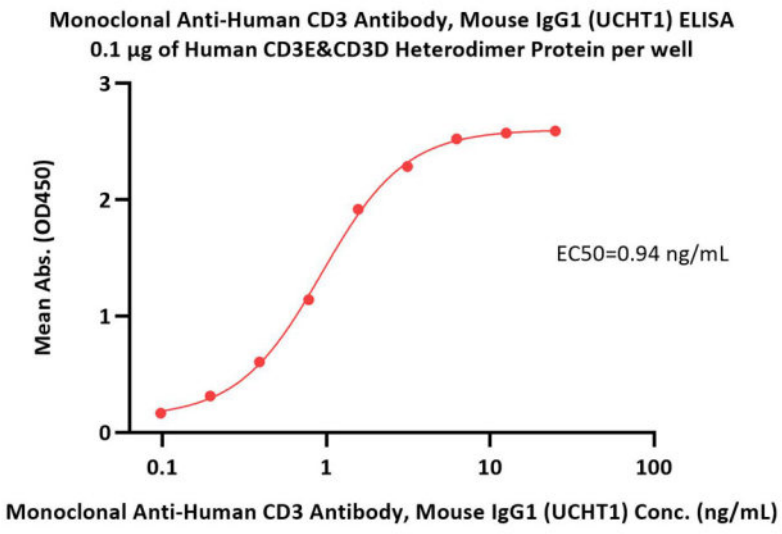
- Quality Advantages
- Quality Control Process

Bioactivity-Flow Cytometry



2e5 of Jurkat cells were stained with 100 µL of 1 µg/mL of Monoclonal Anti-Human CD3 Antibody, Mouse IgG1 (UCHT1) (Cat. No. CDE-M532) and isotype control antibody respectively, washed and then followed by PE-anti mouse IgG1 antibody and analyzed with FACS (Routinely tested).

Bioactivity-ELISA



Immobilized Human CD3E&CD3D Heterodimer Protein (Cat. No. CDD-H52Wa) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Human CD3 Antibody, Mouse IgG1 (UCHT1) (Cat. No. CDE-M532) with a linear range of 0.1-3 ng/mL (QC tested).

Background

CD3e molecule, epsilon is also known as CD3E, is a T-cell surface single-pass type I membrane glycoprotein. CD3E contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3E, together with CD3-gamma, CD3-delta and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. CD3E plays an essential role in T-cell development, and defects in CD3E gene cause severe immunodeficiency. CD3E gene has also been linked to a susceptibility to type I diabetes in women. CD3E has been shown to interact with TOP2B, CD3EAP and NCK2.

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