



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.

Application

ELISA (Evaluation of levels of CD3 epsilon protein).

Flow Cytometry (Evaluation of an epitope within the extracellular domain of CD3 epsilon protein).

Clone

UCHT1

Species

Mouse

Isotype

Mouse IgG1/kappa

Specificity

This product is a specific antibody specifically reacts with CD3 epsilon protein.

Reactivity

Human

Immunogen

Purified Human CD3ε Protein.

Conjugate

Unconjugated

Isotype Control

The Isotype control is sold separately and you can search for Cat. No. [DNP-MIA1](#) for product information.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

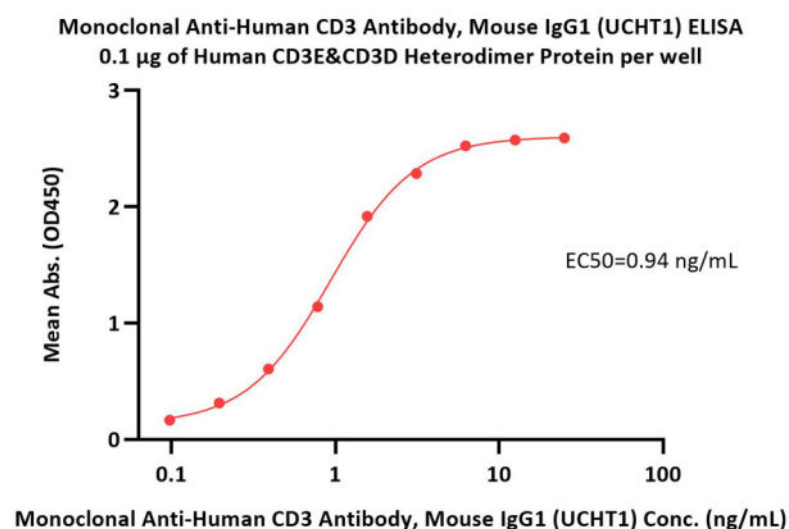
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

Bioactivity-ELISA



Discounts, Gifts,
and more!



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

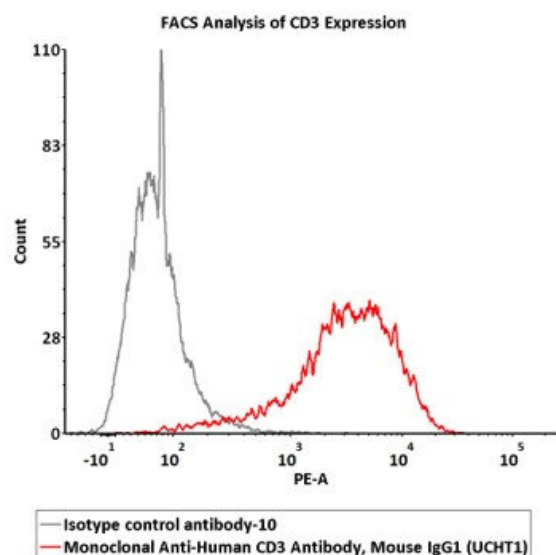
Catalog # CDE-M532



BIOSYSTEMS
Acro

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).

Bioactivity-FACS



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).

Background

CD3ε 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-γ, CD3-δ and CD3-ζ, and the T-cell receptor α/β and γ/δ 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.

Clinical and Translational Updates

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