Stemimmune LLC

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Recombinant Human Anti-CD3 Ab

Cat# HCT-AbD3

Product Specifications

- Expression of Human Proteins in CHO Cells
- Extreme low Endotoxin
- High Purity
- Animal Free and Xeno Free
- Tag Free

Source: CHO cells derived

Structure: Glycosylated monomer

Purity: >95% by SDS-PAGE

Endotoxin Level: <1EU/ug

Molecular Weight: ~25, ~53kDa

Formulation: Lyophilized from a 0.2μm filtered solution in PBS, pH 7.2 without carrier protein

Activity Assay

Human T lymphocyte cell line (Jurkat) stained with anti-human CD3 antibody (blue histogram) or human IgG1 isotype (gray histogram), followed by anti-human IgG FITC.

Reconstitution

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -80°C under sterile conditions after reconstitution.

Protein Description

CD3ε is a 20 kD chain of the CD3/T cell receptor (TCR) complex, which is composed of two CD3ε, one CD3γ, one CD3δ, one CD3ζ (CD247), and a T cell receptor (α/β or γ/δ) heterodimer. The CD3 subunits are required for proper assembly, trafficking, and surface expression of the TCR complex. It is found on all mature T lymphocytes, NK T cells, and some thymocytes. CD3, also known as T3, is a member of the immunoglobulin superfamily that plays a role in antigen recognition, signal transduction, and T cell activation.

References

Barclay N, et al. 1993. The Leucocyte FactsBook. Academic Press. San Diego.

Beverly P, et al. 1981. Eur. J. Immunol. 11:329.

Lanier L, et al. 1986. J. Immunol. 137:2501.