



## Source

Biotinylated Anti-Human CD3 Antibody, Mouse F(ab')<sub>2</sub>, His,Avitag (Clone: OKT3), premium grade (CDE-CV81G0) is an F(ab')<sub>2</sub> fragment-only antibody recombinantly expressed from HEK293 cells.

**It is produced under our rigorous quality control system that incorporates a comprehensive set of tests including sterility and endotoxin tests. Product performance is carefully validated and tested for compatibility for cell culture use or any other applications in the early preclinical stage. When ready to transition into later clinical phases, we also offer a custom GMP protein service that tailors to your needs. We will work with you to customize and develop a GMP-grade product in accordance with your requests that also meets the requirements for raw and ancillary materials use in cell manufacturing of cell-based therapies.**

## Conjugate

Biotin

## Specificity

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

## Endotoxin

Less than 0.002 EU per µg by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-HPLC.

## Sterility

Negative

## Mycoplasma

Negative

## Formulation

Supplied as 0.2 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Shipping

**This product is supplied and shipped with dry ice, please inquire the shipping cost.**

## Storage

For long term storage, the product should be stored at liquid state at -70°C.

**Please avoid repeated freeze-thaw cycles.**

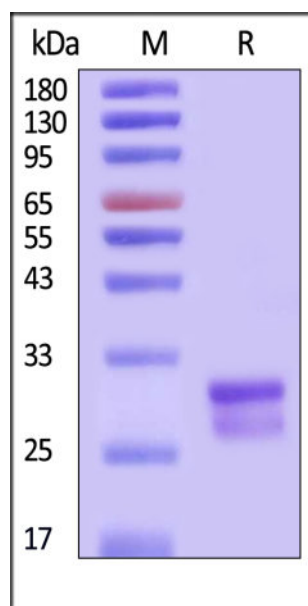
This product is stable after storage at:

- -70°C for 12 months.

## ACRO Quality Management System

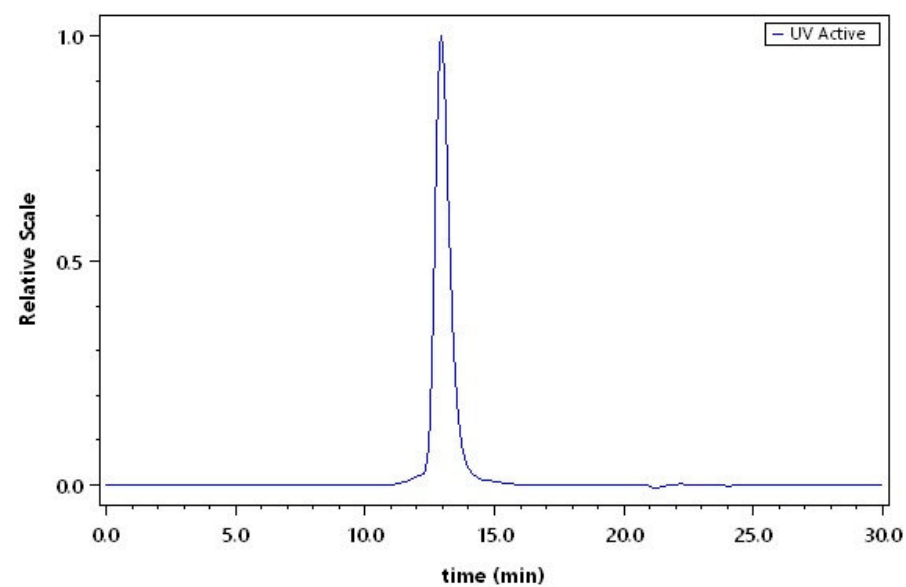
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



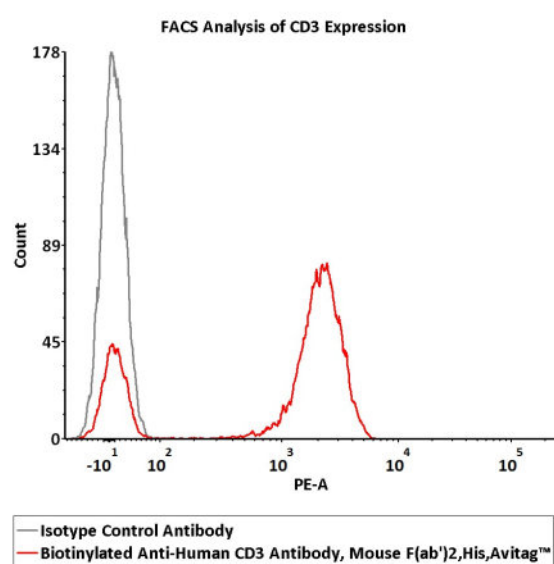
Biotinylated Anti-Human CD3 Antibody, Mouse F(ab')<sub>2</sub>, His,Avitag (Clone: OKT3), premium grade on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-HPLC



The purity of Biotinylated Anti-Human CD3 Antibody, Mouse F(ab')<sub>2</sub>, His,Avitag (Clone: OKT3), premium grade (Cat. No. CDE-CV81G0) was greater than 95% as determined by SEC-HPLC.

## Bioactivity-FACS



Flow cytometric analysis of Human peripheral blood lymphocytes respectively staining Biotinylated Anti-Human CD3 Antibody, Mouse F(ab')<sub>2</sub>, His,Avitag (Clone: OKT3), premium grade (Cat. No. CDE-CV81G0) at 0.1 µg/mL (0.01 µg corresponds to labeling of 1e6 cells in a final volume of 100 µL) and PE Streptavidin. PE signal was used to evaluate the binding activity (QC 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.

Discounts, Gifts,  
and more!



[www.acrobiosystems.com](http://www.acrobiosystems.com)

