



Source

Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3), premium grade (CDE-CH44G1) is recombinantly produced from CHO 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.*

Isotype

Mouse IgG2a/kappa

Conjugate

Unconjugated

Specificity

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

Endotoxin

Less than 0.002 EU per μg by the LAL method.

Protein A

<5 ppm of protein tested by ELISA.

Host Cell Protein

<0.5 ng/ μg of protein tested by ELISA.

Host Cell DNA

<0.02 ng/ μg of protein tested by qPCR.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

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.

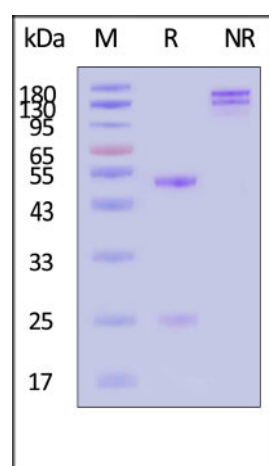
Storage

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

This product is stable after storage at:

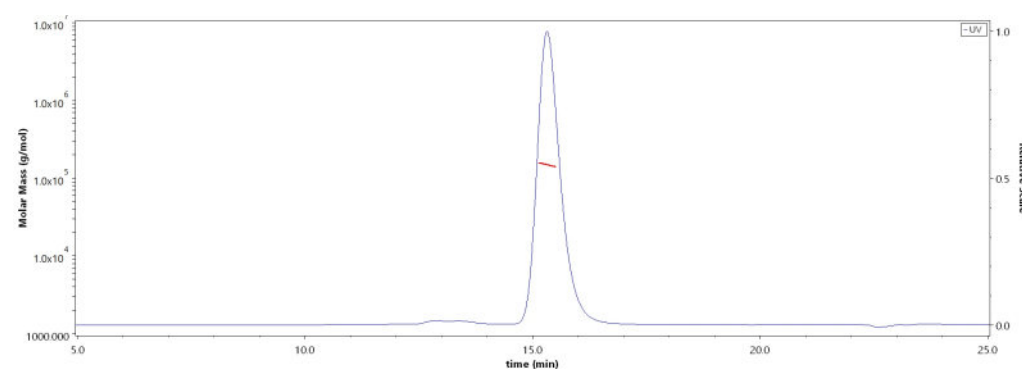
- $2-8^{\circ}\text{C}$ for 12 months under sterile condition;
- -70°C for 24 months.

SDS-PAGE



Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3), premium grade on SDS-PAGE under reducing (R) and non-reducing (NR)

SEC-MALS



The purity of Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3), premium grade (Cat. No. CDE-CH44G1) is more than 95% and the

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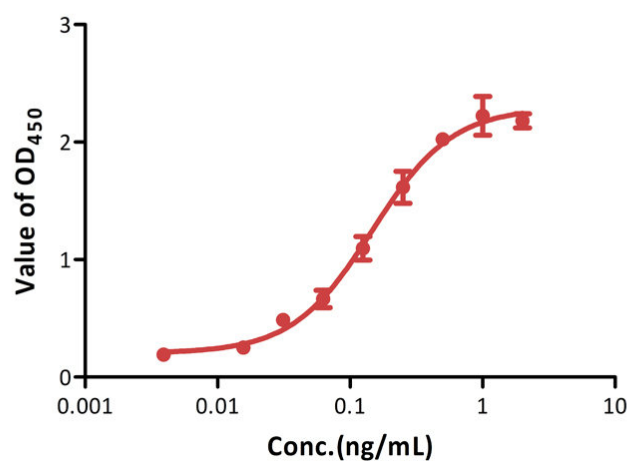


conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

molecular weight of this protein is around 135-160 kDa verified by SEC-MALS.
[Report](#)

Bioactivity-Bioactivity CELL BASE

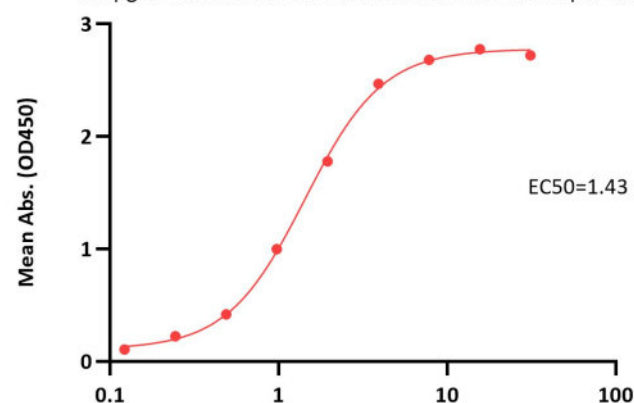
Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3), premium grade stimulates secretion of IL-2 by PBMC



Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3), premium grade (Cat. No. CDE-CH44G1) stimulates secretion of IL-2 by PBMC stimulated with 10 ng/mL Monoclonal Anti-Human CD28 Antibody, premium grade (Cat. No. CD8-M120b). The typically EC50 for this effect is 0.15 ng/mL (QC tested).

Bioactivity-Elisa

Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3), premium grade ELISA
0.1 µg of Human CD3E&CD3D Heterodimer Protein per well



Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3), premium grade Conc. (ng/mL)

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 IgG2a (Clone: OKT3), premium grade (Cat. No. CDE-CH44G1) with a linear range of 0.1-4 ng/mL (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-

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Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3), premium grade (CHO)

Catalog # CDE-CH44G1



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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