

PE-CY7-Labeled Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (OKT3) (0.03% Proclin)

Catalog # FABm001-04



Source

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

OKT3

Isotype

Mouse IgG2a, Kappa

Host Species

Mouse

Reactivity

Human

Immunogen

Purified Human CD3 epsilon Protein

Conjugate

PE-CY7

Excitation Wavelength: 561 nm

Emission Wavelength: 780 nm

Specificity

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

Recommended Dilution

1:20

Form

Liquid

Formulation

Supplied as 0.2 µm-filtered solution in PBS (pH 7.4) containing 0.03% ProClin 300 and 0.2% BSA, with trehalose as protectant.

Please contact us for customized product forms or formulations.

Shipping

Liquid product is shipped at blue ice.

Storage

Please protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- Store at 2-8 °C for 12 months.

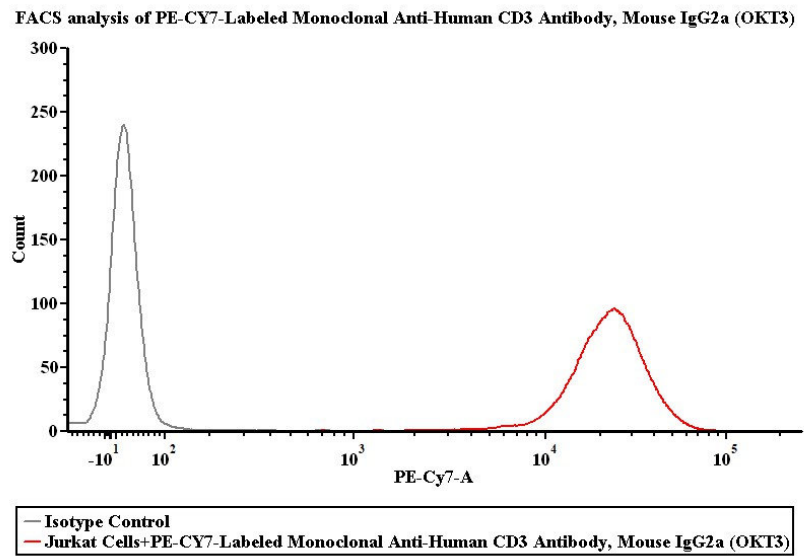
Notices

Product Specific Notices: For research use only.

ACRO Quality Management System

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

Bioactivity-FACS



Flow cytometric analysis of Jurkat staining with PE-CY7-Labeled Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (OKT3) (Cat. No. FABm001-04) at 1:20 dilution (5 μ L of the antibody stock solution corresponds to labeling of 1e6 cells in a final volume of 100 μ L), compared with isotype control antibody. PE-CY7 signal was used to evaluate the binding activity (QC tested).

Background

CD3 ϵ 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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