Biotinylated Anti-human CD3e Monoclonal Antibody (Clone: OKT3, Human IgG1 Fc Silent Kappa)

Catalog No.: PA007204.h1Fs-b | **Product Name:** Biotinylated Recombinant Anti-human CD3e Monoclonal Antibody (Clone: OKT3), Human IgG1 Fc Silent Kappa

Recombinant human anti-human CD3e monoclonal antibody (Clone OKT3, Cat. No. PA007204.h1Fs-b), engineered with a Human IgG1 Fc-Silent domain and conjugated with Biotin to minimize non-specific Fc receptor binding and background noise during flow cytometric analysis. Variable regions are derived from clone OKT3 and produced in mammalian cell culture.

PRODUCT SPECIFICATIONS

Catalog No.	PA007204.h1Fs-b
Product Name	Biotinylated Recombinant Anti-human CD3e Monoclonal Antibody (Clone: OKT3), Human IgG1 Fc Silent Kappa
Supplier Name	Syd Labs, Inc.
Brand Name	Syd Labs
Clone	OKT3 or OKT-3.
Isotype	Human IgG1 Fc Silent Kappa.
Source/Host	Produced in mammalian cells.
Specificity/Sensitivity	Specifically binds to the human T cell receptor CD3.
Applications	Flow cytometry (FC) with various dye conjugation through streptavidin; conjugation to streptavidin agarose or magnetic beads.
Form Of Antibody	0.2 uM filtered solution, pH 7.4, no stabilizers or preservatives.
Conjugate	Biotin-conjugated.
Purity	>95% by SDS-PAGE under reducing conditions and HPLC.
Shipping & Storage	Shipped with ice pack. Store at 2 to 8°C (1 month) or -20°C to -70°C (12 months). Avoid freeze-thaw.

BACKGROUND & APPLICATION INFORMATION

The recombinant anti-human CD3 OKT3 monoclonal antibody engineered by Syd Labs specifically targets the CD3 epsilon (CD3ε) chain of the T-cell receptor (TCR)-CD3 complex. While the OKT3 clone is historically renowned for its profound in vivo immunomodulatory mechanisms and TCR internalization properties, this specific product portfolio is rigorously optimized for high-resolution OKT3 flow cytometry assays.

To completely resolve the pervasive challenge of false-positive background noise caused by non-specific binding to Fcγ receptors on macrophages and monocytes, our engineered human IgG1 fc silent okT3 flow cytometry format utilizes precise constant-domain mutations to deliver ultra-clean gating. Furthermore, for signal amplification in low-abundance target detection, our biotinylated okT3 antibody seamlessly integrates with streptavidin-fluorophore cascades, maximizing your panel design flexibility.