Biotinylated Anti-human CD3e Antibody (UCHT1, Human IgG1 Fc Silent Kappa) | PA007223.h1Fs-b

Catalog No.: PA007223.h1Fs-b | **Product Name:** Biotinylated Recombinant Anti-human CD3e Monoclonal Antibody (Clone: UCHT1), Human IgG1 Fc Silent Kappa | **Biotin-Conjugated / Recombinant Monoclonal Antibody**

Recombinant human anti-human CD3 monoclonal antibody (Clone UCHT1, Cat. No. PA007223.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 UCHT1 and produced in mammalian cell culture.

PRODUCT SPECIFICATIONS

Catalog No.	PA007223.h1Fs-b
Product Name	Biotinylated Recombinant Anti-human CD3e Monoclonal Antibody (Clone: UCHT1), Human IgG1 Fc Silent Kappa
Supplier / Brand	Syd Labs, Inc. / Syd Labs
Clone	UCHT1.
Isotype	Human IgG1 Fc Silent Kappa.
Source / Host	The site-directed biotinylated anti-human CD3 monoclonal antibody (clone: UCHT1) was produced in mammalian cells.
Specificity/Sensitivity	The site-directed biotinylated recombinant UCHT1 antibody specifically binds to the human T cell receptor CD3.
Applications	Flow cytometry (FC) with various dye conjugation through streptavidin; conjugation to streptavidin agarose beads or streptavidin magnetic beads. (Cell Surface Staining, T Cell Immunophenotyping)
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	The antibody is shipped with ice pack. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month from date of receipt, 2 to 8°C as supplied.
Note	Recombinant mouse IgG1 isotype controls and Recombinant human IgG1 isotype controls are available. Condition of sample preparation and optimal sample dilution should be determined experimentally by the investigator.

BACKGROUND & APPLICATION INFORMATION

PA007223.h1Fs-b: Biotinylated Recombinant Anti-human CD3e Monoclonal Antibody (Clone: UCHT1), Human IgG1 Fc Silent Kappa

Recombinant human IgG1 monoclonal antibody with site-directed biotinylation through the Avi tag at the C-terminus of the antibody heavy chain.

The mouse anti-human CD3 monoclonal antibody (clone No. UCHT1, available in classic mouse IgG1 kappa and engineered formats) reacts specifically with the human CD3ε (epsilon) chain encoded by the human CD3E gene, a crucial transmembrane subunit of the T-cell receptor (TCR)–CD3 complex. Expressed uniformly on all mature lineage T cells and medullary thymocytes, the CD3 epsilon chain serves as an indispensable anchor for adaptive cellular immunity mapping. In multi-color immunophenotyping configurations, clone UCHT1 is recognized as an industry-standard lineage marker to accurately segregate T-helper (CD4+) and cytotoxic T (CD8+) populations, making it a foundational tool for anti-human cd3e monoclonal antibody flow cytometry gating cascades.

Our recombinant anti-human cd3 ucht1 flow cytometry portfolio is expressed via advanced mammalian platforms to guarantee high structural purity and exceptional lot-to-lot consistency. To resolve the common laboratory challenge of non-specific binding on Fc-receptor-rich cells (such as monocytes or macrophages), our catalog features an innovative fc silent anti-human cd3 antibody matrix (Human IgG1 Fc Silent Kappa platform). Available in diverse formulations including non-conjugated pure versions and high-affinity biotinylated recombinant anti-human cd3 ucht1 formats, these reagents enable maximum staining resolution and seamless integration into multiplex single-cell immunophenotyping panels without generating background artifacts.

Order & Contact Information

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Offline Order: With formal purchase order (PO) or credit card