Anti-human CD3e Antibody for Flow Cytometry | PA007222.m1

Catalog No.: PA007222.m1 | **Product Name:** Recombinant Anti-human CD3e Monoclonal Antibody (Clone: UCHT1), Mouse IgG1 Kappa | **In vivo Grade / Recombinant Monoclonal Antibody**

Recombinant mouse IgG1 isotype control is available. Condition of sample preparation and optimal sample dilution should be determined experimentally by the investigator.

PRODUCT SPECIFICATIONS

Catalog No.	PA007222.m1
Product Name	Recombinant Anti-human CD3e Monoclonal Antibody (Clone: UCHT1), Mouse IgG1 Kappa
Supplier / Brand	Syd Labs, Inc. / Syd Labs
Synonyms	cluster of differentiation 3, CD3D, CD3E, CD3G
Clone	UCHT1.
Isotype	Mouse IgG1 kappa.
Source / Host	The anti-human CD3 monoclonal antibody (clone: UCHT1) for Flow Cytometry was produced in mammalian cells.
Specificity/Sensitivity	The recombinant mouse monoclonal antibody (clone: UCHT1) for Flow Cytometry specifically binds to the human T cell receptor CD3.
Applications	Flow cytometry (FC), and Immunohistochemistry - Frozen (IHC-F).
Form Of Antibody	0.2 uM filtered solution, pH 7.4, containing 0.09% sodium azide.
Conjugate	Non-conjugated.
Purity	>95% by SDS-PAGE under reducing conditions and HPLC.
Shipping	The Non-conjugated Recombinant Anti-human CD3e Monoclonal Antibody (Clone: UCHT1) for Flow Cytometry 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, 2 to 8°C as supplied. Do not freeze it.
Note	Recombinant mouse IgG1 isotype control is available. Condition of sample preparation and optimal sample dilution should be determined experimentally by the investigator.

BACKGROUND & APPLICATION INFORMATION

PA007222.m1: Recombinant Anti-human CD3e Monoclonal Antibody (Clone: UCHT1) for Flow Cytometry, Mouse IgG1 Kappa, In vivo Grade

The UCHT1 antibody binds to CD3 epsilon of the T cell receptor-CD3 complex found only on mature T cells and medullary thymocytes. An interaction between T cells, UCHT1, and monocytes causes T-cell activation (mitogenesis) in vitro. On the other hand, the UCHT1 antibody blocks the unique association between the antigen receptor and CD3, and both the generation and function of cytotoxic T cells.

After an initial dose of the UCHT1 antibody, T cells disappear from the circulation within minutes to hours. During treatment with the UCHT1 antibody, T cells bearing the usual array of surface molecules (CD2, CD4, and CD8) reappear in the peripheral blood circulation but these cells are devoid of CD3. After another 48 hours without the UCHT1 antibody, the normal array of surface molecules including CD3 appear again on all T cells. The selective removal of CD3 by internalization is thought to be the key mechanism of action of the UCHT1 antibody. Comodulation of the antigen receptor with CD3 explains the immunoblocking action of the UCHT1 antibody in vivo. The UCHT1 antibody is ineffective clinically if the CD3 target molecule is not modulated.

The UCHT1 antibody is effective for induction of immunosuppression and for treating initial and steroid-resistant rejections.

Order & Contact Information

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