Human CD3ε PE-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # UCHT1

Catalog Number: FAB100P
100 TESTS, 25 TESTS

DESCRIPTION

Species Reactivity	Human
Specificity	Recognizes the ε-chain of the CD3/T cell antigen receptor complex (McMichael, A.J. *et al.* (1987) Leucocyte Typing III: White Cell Differentiation Antigens, Oxford University Press, New York; Knapp, W. *et al.* (1989) Leucocyte Typing IV: White Cell Differentiation Antigens, Oxford University Press, New York; Schlossman, S. *et al.* (1995) Leucocyte Typing V: White Cell Differentiation Antigens, Oxford University Press, New York).
Source	Monoclonal Mouse IgG_1 Clone # UCHT1
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human thymocytes (1)
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

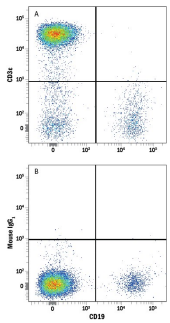
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of CD3ε in Human Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with Mouse Anti-Human CD19 APC-conjugated Monoclonal Antibody (Catalog # FAB4867A) and either (A) Mouse Anti-Human CD3ε PE-conjugated Monoclonal Antibody (Catalog # FAB100P) or (B) Mouse IgG_1 Phycoerythrin Isotype Control (Catalog # IC002P). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD3ε is a key signaling molecule that participates in the formation of the T Cell Receptor (TCR). The αβ TCR is composed of six distinct subunits. There is an α-β disulfide-linked heterodimer that recognizes antigen, and this is accompanied by four CD3 subunits that transduce an intracellular signal. CD3ε forms a heterodimer with both CD3γ and CD3δ, creating two signaling complexes. These two heterodimers are supplemented by a CD3ζζ homodimer that lies in the center of the TCR complex, generating a fully-functional TCR (2).

References:

1. Beverly, P.C.L. and R.E. Callard (1981) Eur. J. Immunol. **11**:329.
2. Call, M.E. and K.W. Wucherpfennig (2005) Annu. Rev. Immunol. **23**: 101

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