

DESCRIPTION

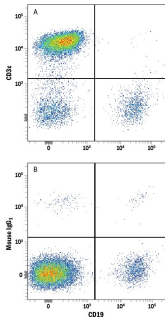
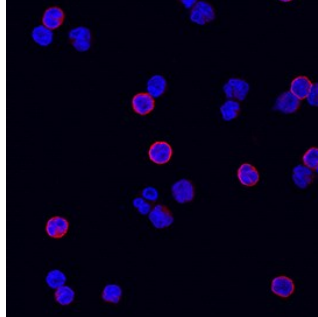
Species Reactivity	Human
Specificity	Recognizes the ε-chain of the CD3/T cell antigen receptor complex (McMichael, A.J. <i>et al.</i> (1987) <i>Leucocyte Typing III: White Cell Differentiation Antigens</i> , Oxford University Press, New York; Knapp, W. <i>et al.</i> (1989) <i>Leucocyte Typing IV: White Cell Differentiation Antigens</i> , Oxford University Press, New York; Schlossman, S. <i>et al.</i> (1995) <i>Leucocyte Typing V: White Cell Differentiation Antigens</i> , 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	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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	5 µL/10 ⁶ cells	See Below
Immunocytochemistry	8-25 µg/mL	See Below

DATA

<p>Flow Cytometry</p>  <p>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 Alexa Fluor® 594-conjugated Monoclonal Antibody (Catalog # FAB100T) or (B) Mouse IgG₁ Alexa Fluor 594 Isotype Control (Catalog # IC002T). View our protocol for Staining Membrane-associated Proteins.</p>	<p>Immunocytochemistry</p>  <p>CD3ε in Human PBMCs. CD3ε was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) using Mouse Anti-Human CD3ε Alexa Fluor® 594-conjugated Monoclonal Antibody (red; Catalog # FAB100T) at 10 µg/mL for 3 hours at room temperature. Cells were counterstained with DAPI (blue). Specific staining was localized to cell surfaces and cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>
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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 one of at least four invariant proteins that associate with the variable antigen recognition chains of the T cell receptor and function in signal transduction.

References:

1. Beverly, P.C.L. and R.E. Callard (1981) *Eur. J. Immunol.* **11**:329.

PRODUCT SPECIFIC NOTICES

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Human CD3ε Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # UCHT1

Catalog Number: FAB100T

100 TESTS, 25 TESTS
