abcam

ab34275

FITC Anti-CD3 antibody [UCHT1]

Anti-CD3 antibody [UCHT1] conjugated to FITC - suitable for flow cytometry, and reacts with human samples. Clone [UCHT1] is a mouse monoclonal antibody and one of the most commonly used clones for flow cytometry.

Design your panel with our interactive flow cytometry panel builder. Click here.

Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	FITC
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	pH: 7.2 Preservative: 0.09% Sodium azide Constituents: 0.87% Sodium chloride, 0.14% Sodium dihydrogen phosphate, 0.1% Gelatin
Form	Liquid
Clonality	Monoclonal
Clone number	UCHT1
Purification technique	Affinity purification
Concentration	0.2 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from tissue culture supernatant

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	ab91356 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Predicted

Species	Chimpanzee
Dilution info	-
Notes	-

Target data

See full target information CD3D

Function

Part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an essential role in adaptive immune response. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD247/CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain. Upon TCR engagement, these motifs become phosphorylated by Src family protein tyrosine kinases LCK and FYN, resulting in the activation of downstream signaling pathways (PubMed:2470098). In addition of this role of signal transduction in T-cell activation, CD3D plays an essential role in thymocyte differentiation. Indeed, participates in correct intracellular TCR-CD3 complex assembly and surface expression. In absence of a functional TCR-CD3 complex, thymocytes are unable to differentiate properly. Interacts with CD4 and CD8 and thus serves to establish a functional link between the TCR and coreceptors CD4 and CD8, which is needed for activation and positive selection of CD4 or CD8 T-cells (PubMed:12215456).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze, Store undiluted

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

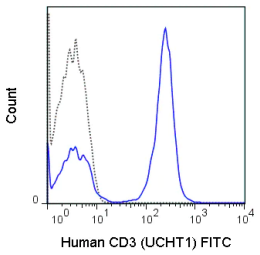
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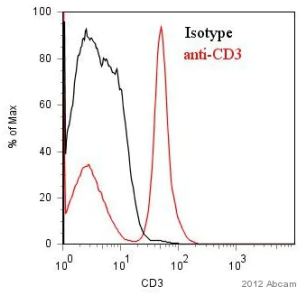
3 product images



Flow Cytometry - FITC Anti-CD3 antibody [UCHT1] (ab34275)

CD3 Flow Cytometry staining using mouse Anti-CD3 antibody

Flow Cytometry analysis of Human peripheral blood lymphocytes staining CD3 with ab34275 at 5µL (1.0µg) concentration (solid line), and isotype control Mouse IgG1 (FITC) at 1.0µg (dotted line).

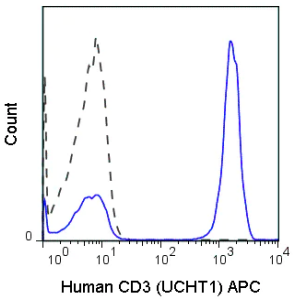


This image is courtesy of an anonymous customer review

Flow Cytometry - FITC Anti-CD3 antibody [UCHT1] (ab34275)

CD3 Flow Cytometry staining using mouse Anti-CD3 antibody

ab34275 staining CD3 in Human PBMCs by Flow Cytometry. PBMCs were isolated from buffy coat after Ficoll preparation in PBS + 1% BSA and 0.01% sodium azide. The sample was incubated with the primary antibody (1/100 in PBS + 1% BSA and 0.01% sodium azide) for 1 hour at 4°C.
Gating Strategy: Live Lymphocytes.



Flow Cytometry - FITC Anti-CD3 antibody [UCHT1] (ab34275)

CD3 Flow Cytometry staining using mouse Anti-CD3 antibody

FACS analysis of CD3 expression in human peripheral blood lymphocytes stained with ab34275 (solid line) at 0.25 ug and 0.25 ug isotype control (dashed line).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.