

CD3 Monoclonal Antibody (UCHT1), Alexa Fluor™ 700, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	UCHT1
Conjugate	Alexa Fluor™ 700
Excitation/Emission Max	696/719 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_10597906

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	24 Publications

Product Specific Information

Description: The UCHT1 monoclonal antibody reacts with human CD3e, a 20 kDa subunit of the TCR complex. Along with the other CD3 subunits gamma and delta, the epsilon chain is required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. Crosslinking of TCR via immobilized UCHT1 initiates an intracellular biochemical pathway resulting in cellular activation and proliferation.

Applications Reported: This UCHT1 antibody has been reported for use in flow cytometric analysis.

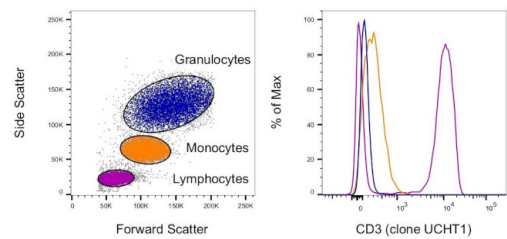
Applications Tested: Has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

The Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

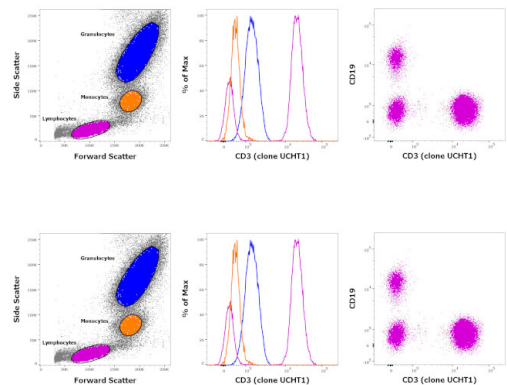
Excitation: 633-647 nm; **Emission:** 723 nm; **Laser:** Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

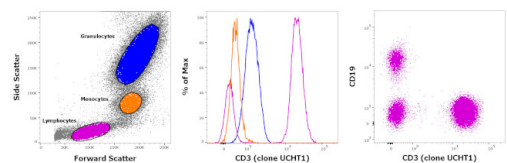
Product Images For CD3 Monoclonal Antibody (UCHT1), Alexa Fluor™ 700, eBioscience™



CD3 Antibody (56-0038-42)
Staining of human peripheral blood cells. As expected based on known relative expression patterns, CD3 clone UCHT1 stains a subset of lymphocytes (T cells) and does not stain monocytes and granulocytes. Details: Normal human whole blood was surface stained with CD3 (clone UCHT1). After staining, red blood cells were lysed using 1-step Fix/Lyse Buffer. Cells in the lymphocyte (purple histogram), monocyte (orange histogram), or granulocyte (blue histogram) gates were used for analysis. {RE}



CD3 Antibody (56-0038-42)
Staining of human peripheral blood mononuclear cells with CD45 Pacific Blue, CD19 FITC and CD3 Alexa Fluor 700. As expected based on known relative expression patterns, CD3 clone UCHT1 stains a subset of lymphocytes (pink), but not monocytes (orange) and granulocytes (blue). {RE}



CD3 Antibody (56-0038-42) in Flow
Staining of human peripheral blood mononuclear cells with CD45 Pacific Blue, CD19 FITC and CD3 Alexa Fluor 700. As expected based on known relative expression patterns, CD3 clone UCHT1 stains a subset of lymphocytes (pink), but not monocytes (orange) and granulocytes (blue).

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24 References

Flow Cytometry (24)

<p>JCI insight</p> <p>The XIST lncRNA is a sex-specific reservoir of TLR7 ligands in SLE.</p> <p>"56-0038-42 was used in Flow cytometry/Cell sorting to suggest a novel role for XIST RNA as a female-specific danger signal underlying the sex bias in SLE."</p> <p>Authors: Crawford JD,Wang H,Trejo-Zambrano D,Cimbro R,Talbot CC,Thomas MA,Curran AM,Girgis AA,Schroeder JT,Fava A,Goldman DW,Petri M,Rosen A,Antiochos B,Darrah E</p>	<p>Year 2023</p> <p>Species Human</p>
<p>Cell reports methods</p> <p>Ex vivo assays show human gamma-delta T cells specific for common allergens are Th1-polarized in allergic donors.</p> <p>"56-0038-42 was used in flow cytometry to support the existence of allergen-reactive T cells and their potential use in rebalancing dysregulated Th2 responses in allergic diseases."</p> <p>Authors: Yu ED,Wang E,Garrigan E,Sutherland A,Khalil N,Kearns K,Pham J,Schulten V,Peters B,Frazier A,Sette A,da Silva Antunes R</p>	<p>Year 2022</p> <p>Species Human</p>

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