

# CD3 Monoclonal Antibody (UCHT1), FITC, eBioscience™

## Product Details

Size	100 Tests
Species Reactivity	Human
Published Species	Rat, Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	UCHT1
Conjugate	FITC
Excitation/Emission Max	498/517 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_2043831

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	3 Publications
Flow Cytometry (Flow)	5 µL (1 µg)/test	63 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.

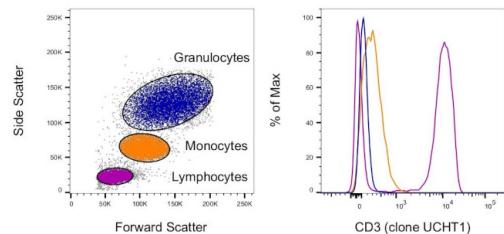
Applications Reported: The UCHT1 antibody has been reported for use in flow cytometric analysis.

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 (1 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

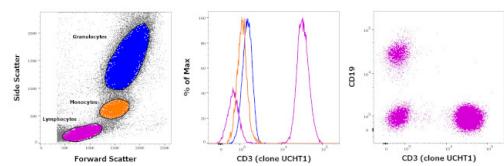
Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD3 Monoclonal Antibody (UCHT1), FITC, eBioscience™



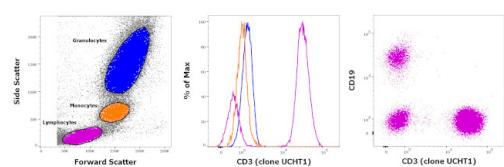
### CD3 Antibody (11-0038-42)

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 (11-0038-42)

Staining of human peripheral blood mononuclear cells with CD45 Pacific Blue, CD19 APC and CD3 FITC. 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 (11-0038-42) in Flow

Staining of human peripheral blood mononuclear cells with CD45 Pacific Blue, CD19 APC and CD3 FITC. As expected based on known relative expression patterns, CD3 clone UCHT1 stains a subset of lymphocytes (pink), but not monocytes (orange) and granulocytes (blue).

[View more figures on thermofisher.cn](http://thermofisher.cn)

## 66 References

### Immunohistochemistry (3)

PloS one

#### Ulcerative colitis impairs the acylethanolamide-based anti-inflammatory system reversal by 5-aminosalicylic acid and glucocorticoids.

"Published figure using CD3 monoclonal antibody (Product # 11-0038-42) in Immunofluorescence"

Authors: Suárez J, Romero-Zerbo Y, Márquez L, Rivera P, Iglesias M, Bermúdez-Silva FJ, Andreu M, Rodríguez de Fonseca F

Year  
2012

Hepatology (Baltimore, Md.)

#### Accumulation of natural killer T cells in progressive nonalcoholic fatty liver disease.

"Published figure using CD3 monoclonal antibody (Product # 11-0038-42) in Immunohistochemistry"

Authors: Syn WK, Oo YH, Pereira TA, Karaca GF, Jung Y, Omenetti A, Witek RP, Choi SS, Guy CD, Fearing CM, Teaberry V, Pereira FE, Adams DH, Diehl AM

Year  
2010

[View more IHC references on thermofisher.cn](#)

### Flow Cytometry (63)

Molecular cell

#### Stepwise activities of mSWI/SNF family chromatin remodeling complexes direct T cell activation and exhaustion.

"11-0038-42 was used in Flow cytometry/Cell sorting to reveal the central role of mSWI/SNF complexes in the coordination of T cell activation and exhaustion and nominate small-molecule-based strategies for the improvement of current immunotherapy protocols."

Authors: Battistello E, Hixon KA, Comstock DE, Collings CK, Chen X, Rodriguez Hernaez J, Lee S, Cervantes KS, Hinkley MM, Ntatsoulis K, Cesarano A, Hockemeyer K, Haining WN, Witkowski MT, Qi J, Tsirigos A, Perna F, Aifantis I, Kadoc C

Year  
2023

Species  
Human

Dilution  
1:100

Methods in molecular biology (Clifton, N.J.)

#### Tracking Plasmacytoid Dendritic Cell Response to Physical Contact with Infected Cells.

"11-0038-42 was used in Flow Cytometry to address how pDC activation is regulated by cell-cell contact with virally infected cells and the current approaches enabling to decipher the underlying molecular events leading to an efficient antiviral response."

Authors: Ribeiro MS, Joshi G, Décembre E, Nuovo C, Bosseboeuf A, Bellomo A, Venet M, Assil S, Dreux M

Year  
2023

Species  
Human

[View more Flow references on thermofisher.cn](#)

### More applications with references on thermofisher.cn

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