

CD3 Monoclonal Antibody (UCHT1), eBioscience™

Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Rat, Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	UCHT1
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_467059

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	8 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	54 Publications
ELISA (ELISA)	-	1 Publication
Functional Assay (FN)	Assay-Dependent	8 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, and immunohistochemical staining. UCHT1 has also been reported in activation of T cells. (Please use Functional Grade purified UCHT1, Product # 16-0038 , in functional assays.).

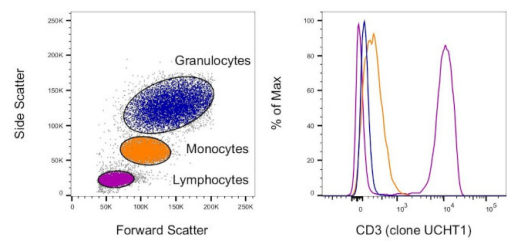
Applications Tested: The UCHT1 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

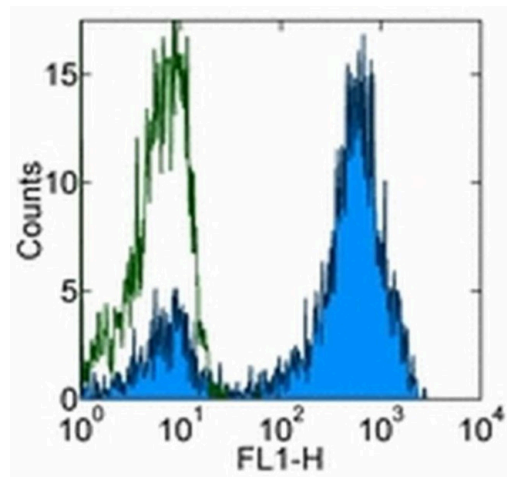
Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD3 Antibody (14-0038-82)
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 (14-0038-82) in Flow
Staining of normal human peripheral blood cells with 0.5 µg of Mouse IgG1 K Isotype Control Purified (Product # 14-4714-82) (open histogram) or 0.5 µg of Anti-Human CD3 Purified (filled histogram) followed by Anti-Mouse IgG FITC (Product # 11-4011-85). Cells in the lymphocyte gate were used for analysis.

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Immunohistochemistry (8)

<p>STAR protocols</p> <p>Protocol for large scale whole blood immune monitoring by mass cytometry and Cyto Quality Pipeline.</p> <p>"14-0038-82 was used in Immunohistochemistry to describe the steps to stimulate, fix, and freeze blood samples before acquisition to make them suitable for retrospective studies."</p> <p>Authors: Rybakowska P, Van Gassen S, Martorell Marugán J, Quintelier K, Saeys Y, Alarcón-Riquelme ME, Marañón C</p>	<p>Year 2022</p> <p>Species Human</p> <p>Dilution 1:400</p>
<p>American journal of reproductive immunology (New York, N.Y. : 1989)</p> <p>The impact of maternal SARS-CoV-2 vaccination and first trimester infection on feto-maternal immune responses.</p> <p>"14-0038-82 was used in Immunohistochemistry-immunofluorescence to conclude that COVID-19 infection in the first trimester did not cause significant decidual leukocyte or cytokine changes at the maternal-fetal interface, and that vaccination was not associated with decidual inflammation, supporting the safety of SARS-CoV-2 vaccination during pregnancy."</p> <p>Authors: Juttukonda LJ, Wachman EM, Boateng J, Clarke K, Snyder-Cappione J, Taglauer ES</p>	<p>Year 2022</p> <p>Species Human</p> <p>Dilution 1:100</p>

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

Immunohistochemistry (Frozen) (1)

<p>Molecular cancer research : MCR</p> <p>Distinct Transcriptional Changes and Epithelial-Stromal Interactions Are Altered in Early-Stage Colon Cancer Development.</p> <p>"14-0038 was used in Immunofluorescence in immunohistochemistry on frozen tissues to perform a detailed characterisation of aberrant crypt foci in the human colon to better understand the epithelial-stromal interactions that regulate their progression to malignancy."</p> <p>Authors: Mo A, Jackson S, Varma K, Carpino A, Giardina C, Devers TJ, Rosenberg DW</p>	<p>Year 2016</p> <p>Species Human</p> <p>Dilution 1:200</p>
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Immunocytochemistry (1)

<p>PloS one</p> <p>Ulcerative colitis impairs the acylethanolamide-based anti-inflammatory system reversal by 5-aminosalicylic acid and glucocorticoids.</p> <p>"Published figure using CD3 monoclonal antibody (Product # 14-0038-82) in Immunofluorescence"</p> <p>Authors: Suárez J, Romero-Zerbo Y, Márquez L, Rivera P, Iglesias M, Bermúdez-Silva FJ, Andreu M, Rodríguez de Fonseca F</p>	<p>Year 2012</p>
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More applications with references on thermofisher.cn

Flow (54) **ELISA (1)** **FN (8)**

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