

CD3e Monoclonal Antibody (UCHT1), APC

Catalog Number MA1-10177

Product data sheet

Details		Species Reactivity	
Size	100 Tests	Species reactivity	Human, Non-human primate
Host/Isotope	Mouse / IgG1	Published species	Human, Mouse
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	10 µL/1x10^6 cells
Clone	UCHT1	Published Applications	
Immunogen	human thymocytes followed by Sezary T cells	Miscellaneous PubMed (Misc)	See 1 publications below
Conjugate	APC	Immunohistochemistry (IHC)	See 1 publications below
Form	Liquid	Flow Cytometry (Flow)	See 2 publications below
Purification	Size-exclusion chromatography	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage buffer	PBS, pH 7.4, with 0.2% BSA		
Contains	15mM sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Background/Target Information

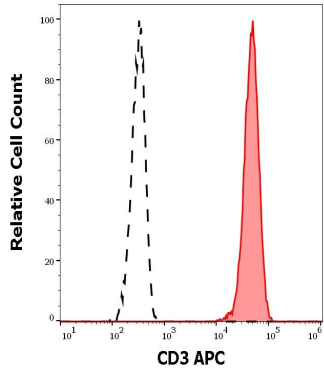
The CD3 subunit complex which is crucial in transducing antigen-recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR complex. T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits CD3 gamma, CD3 delta, CD3 epsilon and CD3 zeta. These CD3 subunits are structurally related members of the immunoglobulins super family encoded by closely linked genes on human chromosome 11. The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal transduction molecules and this association is mediated at least in part by a double tyrosine-based motif present in a single copy in the CD3 subunits. CD3 may play a role in TCR-induced growth arrest, cell survival and proliferation. The CD3 antigen is present on 68-82% of normal peripheral blood lymphocytes, 65-85% of thymocytes and Purkinje cells in the cerebellum. It is never expressed on B or NK cells. Decreased percentages of T lymphocytes may be observed in some autoimmune diseases. The genes encoding the CD3 epsilon, gamma and delta polypeptides are located on chromosome 11. Defects in the CD3 gene are associated with CD3 immunodeficiency.

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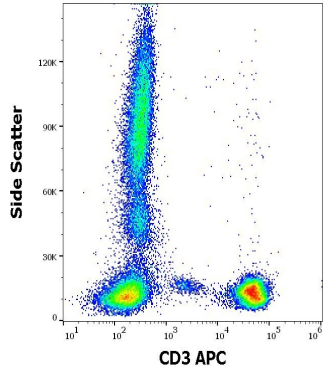
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CD3e Antibody (MA1-10177) in Flow

Separation of human CD3 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD3 (UCHT1) APC Monoclonal antibody (Product # MA1-10177) using a dilution of 10 µL reagent/100 µL of peripheral whole blood.



CD3e Antibody (MA1-10177) in Flow

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD3 (UCHT1) APC Monoclonal antibody (Product # MA1-10177) using a dilution of 10 µL reagent/100 µL of peripheral whole blood.

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PubMed References For CD3e Monoclonal Antibody (UCHT1), APC

1 Miscellaneous PubMed References

Species / Dilution	Summary
Human / Not Cited	MA1-10177 was used in flow cytometry to examine the effect on cellular iron uptake upon expression of the accessory protein Nef from different lentiviral strains.
	Retrovirology (2014; 11:) "Lentiviral Nef suppresses iron uptake in a strain specific manner through inhibition of Transferrin endocytosis." Author(s):Koppensteiner H,Höhne K,Gondim MV,Gobert FX,Widder M,Gundlach S,Heigele A,Kirchhoff F,Winkler M, Benaroch P,Schindler M PubMed Article URL: http://dx.doi.org/10.1186/1742-4690-11-1

1 Immunohistochemistry References

Species / Dilution	Summary
Human / Not Cited	MA1-10177 was used in immunohistochemistry to identify novel disease-specific pathways in spondylarthritis synovitis using geneome-wide microarray analysis
	Arthritis and rheumatism (2013; 65: 174) "Disease-specific and inflammation-independent stromal alterations in spondylarthritis synovitis." Author(s):Yeremenko N,Noordenbos T,Cantaert T,van Tok M,van de Sande M,Cañete JD,Tak PP,Baeten D PubMed Article URL: http://dx.doi.org/10.1002/art.37704

2 Flow Cytometry References

Species / Dilution	Summary
Human / Not Cited	MA1-10177 was used in Flow cytometry/Cell sorting to characterise the phenotypes of different immune compartments in various syndromes of congenital or acquired cellular deficiencies.
	The Journal of experimental medicine (2011; 208: 227) "The human syndrome of dendritic cell, monocyte, B and NK lymphoid deficiency." Author(s):Bigley V,Haniffa M,Doulatov S,Wang XN,Dickinson R,McGovern N,Jardine L,Pagan S,Dimmick I,Chua I,Wallis J, Lordan J,Morgan C,Kumararatne DS,Doffinger R,van der Burg M,van Dongen J,Cant A,Dick JE,Hambleton S,Collin M PubMed Article URL: http://dx.doi.org/10.1084/jem.20101459
Mouse / Not Cited	MA1-10177 was used in flow cytometry to study the mechanism by which B cell antigen receptor signaling enhances IFN-gamma-induced Stat1 target gene expression
	Journal of interferon & cytokine research : the official journal of the International Society for Interferon and Cytokine Research (2005; 25: 113) "B cell antigen receptor signaling enhances IFN-gamma-induced Stat1 target gene expression through calcium mobilization and activation of multiple serine kinase pathways." Author(s):Xu W,Nair JS,Malhotra A,Zhang JJ PubMed Article URL: http://dx.doi.org/10.1089/jir.2005.25.113

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