

Anti-Human CD5 Antibody, Clone UCHT2, FITC



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Antibodies

Mouse monoclonal IgG1 antibody
against human, rhesus, cynomolgus
CD5, FITC-conjugated

Catalog #60082FI
#60082FI.1

100 Tests 5 µL/test
25 Tests 5 µL/test

Product Description

The UCHT2 antibody reacts with CD5, an ~67 kDa single-chain type I glycoprotein and member of the scavenger receptor superfamily, which is constitutively expressed on thymocytes, T cells, B cell subsets, peripheral blood dendritic cells and some leukemia and lymphoma cells, including chronic B lymphocytic leukemia (B-CLL) cells. CD5 is expressed at low levels on thymocytes and at high density on mature T cells. Putative ligands include CD5L and CD72. CD5 modulates T and B cell receptor signaling, thymocyte maturation, and T cell/B cell interactions via its physical and functional associations with the T cell receptor/CD3 complex and the B-cell receptor. Studies with CD5 knockout mice indicate that CD5 negatively regulates antigen receptor-mediated signaling in thymocytes and mature T cells. The UCHT2 antibody binds to epitope 2 located in the extracellular domain of CD5.

Target Antigen Name:	CD5
Alternative Names:	Leu1, Leu-1, Ly-1, Lymphocyte Antigen T1, T1, Tp67
Gene ID:	921
Species Reactivity:	Human, Rhesus, Cynomolgus, Capuchin Monkey, Chimpanzee, Common Marmoset, Owl Monkey
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	UCHT2
Isotype:	IgG1, kappa
Immunogen:	Human thymocytes followed by Sézary T cells
Conjugate:	FITC

Applications

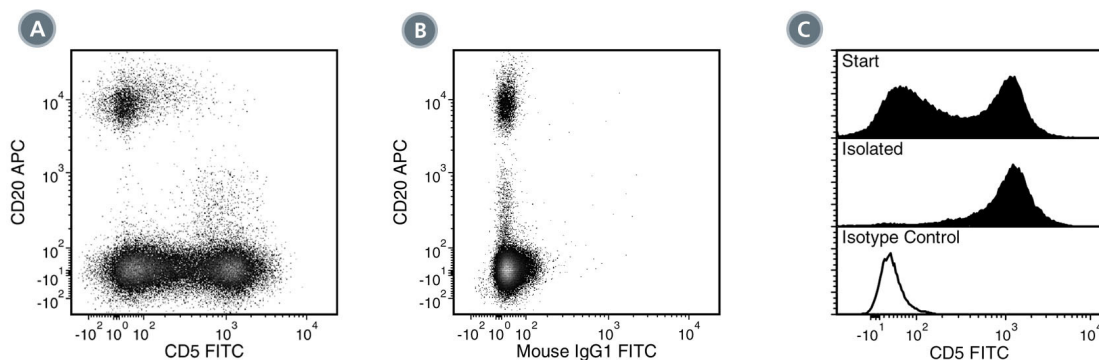
Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ HLA Whole Blood CD3 Positive Selection Kit (Catalog #18081HLA) and EasySep™ HLA CD3 Positive Selection Kit (Catalog #18051HLA).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) bovine serum albumin
Purification:	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com .
Directions for Use:	For flow cytometry the suggested use of this antibody is 5 µL per 1 x 10 ⁶ cells in 100 µL volume or per 100 µL of whole blood. It is recommended that the antibody be titrated for optimal performance for each application.

Data



- (A) Flow cytometry analysis of human buffy coat nucleated cells labeled with Anti-Human CD5 Antibody, Clone UCHT2, FITC and Anti-Human CD20 Antibody, Clone 2H7, APC (Catalog #60008AZ).
- (B) Flow cytometry analysis of human buffy coat nucleated cells labeled with a mouse IgG1, kappa APC isotype control antibody and Anti-Human CD20 Antibody, Clone 2H7, APC.
- (C) Flow cytometry analysis of human buffy coat nucleated cells processed with the EasySep™ HLA CD3 Positive Selection Kit and labeled with Anti-Human CD5 Antibody, Clone UCHT2, FITC. Histograms show labeling of buffy coat nucleated cells (Start) and isolated cells (Isolated). Labeling of start cells with a mouse IgG1, kappa FITC isotype control antibody is shown (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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