Anti-Human CD3 Antibody, Clone UCHT1, PerCP-Cy5.5

Antibodies

Mouse monoclonal IgG1 antibody against human, chimpanzee CD3,

PerCP-Cy5.5-conjugated

Catalog #60011PS #60011PS.1 100 tests 5 µL/test 5 µL/test 25 tests



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Product Description

The UCHT1 antibody reacts with the ~20 kDa CD3s subunit of the human T cell receptor (TCR)/CD3 complex, which is expressed on the surface of ~95% of mature T cells and NK-T cells, and variably on thymocytes. A majority of T cell neoplasms also express CD3. The CD3 complex, which is assembled from combinations of CD3 γ , δ , ϵ , η and ζ subunits, associates non-covalently with the TCR and is involved in transducing antigen recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR. Activation of T cells by the TCR involves the cytoplasmic tails of the CD3 subunits, which are structurally related type 1 transmembrane proteins and members of the immunoglobulin super family. Mutations in the CD3 subunits have been associated with various immunodeficiency disorders including severe combined immunodeficiency disorder (SCID).

Target Antigen Name: CD3

Alternative Names: CD3e, CD3epsilon, T3

Gene ID: 915

Species Reactivity: Human, Chimpanzee **Host Species:** Mouse (BALB/c) Clonality: Monoclonal Clone: UCHT1

Isotype: IgG1, kappa

Human infant thymocytes followed by Sézary T cells Immunogen:

Conjugate: PerCP-Cy5.5

Applications

Verified: FC FC Reported:

Special Applications: This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including

EasySep™ Direct Human T Cell Isolation Kit (Catalog #19661), EasySep™ Human CD3 Positive Selection Kit (Catalog #18051; partial blocking may be observed), EasySep™ HLA Whole Blood T Cell Enrichment Kit (Catalog #19951HLA) and EasySep™ HLA Whole Blood CD2 Positive Selection Kit (Catalog #18687HLA).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; WB: Western blotting

Properties

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.1% gelatin

Purification: The antibody was purified by affinity chromatography and conjugated with PerCP-Cy5.5 under optimal

conditions. The solution is free of unconjugated PerCP-Cy5.5.

Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to Stability and Storage:

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 (0.5 µg) per 1 x 10e6 cells in 100 µL volume. It

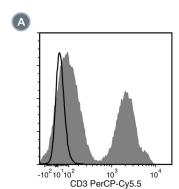
is recommended that the antibody be titrated for optimal performance for each application.

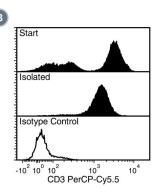
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Antibodies



Data





(A) Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Human CD3 Antibody, Clone UCHT1, PerCP-Cy5.5 (filled histogram) or a mouse IgG1, kappa isotype control antibody, PerCP-Cy5.5 (solid line histogram).

(B) Flow cytometry analysis of human PBMCs processed with the EasySep™ Human CD3 Positive Selection Kit (Catalog #18051) and labeled with Anti-Human CD3 Antibody, Clone UCHT1, PerCP-Cy5.5. Histograms show labeling of PBMCs (Start) and isolated cells (Isolated). Labeling of start cells with a mouse IgG1, kappa isotype control antibody, PerCP-Cy5.5 is shown in the bottom panel (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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