Anti-Human CD3 Antibody, Clone SK7, FITC

Antibodies

Mouse monoclonal IgG1 antibody against human, chimpanzee CD3, FITC-

conjugated

Catalog #60127FI #60127FI.1 100 Tests 5 μL/test 25 Tests 5 μL/test



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Product Description

The SK7 antibody reacts with the ~20 kDa CD3 ϵ 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 disorder (SCID).

Target Antigen Name: CD3

Alternative Names: CD3e, CD3epsilon, T3

Gene ID: 916

Species Reactivity:Human, ChimpanzeeHost Species:Mouse (BALB/c)Clonality:Monoclonal

Clone: SK7

Isotype: IgG1, kappa

Immunogen: Human thymocytes

Conjugate: FITC

Applications

Verified: FC Reported: FC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; 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 10⁶ 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

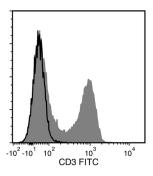
application.

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Data



Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Human CD3 Antibody, Clone SK7, FITC (filled histogram) or Mouse IgG1, kappa Isotype Control Antibody, Clone MOPC-21, FITC (Catalog #60070FI; 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

- 1. Haapaniemi EM et al. (2015) Autoimmunity, hypogammaglobulinemia, lymphoproliferation, and mycobacterial disease in patients with activating mutations in STAT3. Blood 125(4): 639–48. (FC)
- 2. Tario JD et al. (2015) Dextramer reagents are effective tools for quantifying CMV antigen-specific T cells from peripheral blood samples. Cytometry B Clin Cytom 88(1): 6–20. (FC)
- 3. Buggert M et al. (2014) Multiparametric bioinformatics distinguish the CD4/CD8 ratio as a suitable laboratory predictor of combined T cell pathogenesis in HIV infection. J Immunol 192(5): 2099–108. (FC)
- 4. Rodriguez AR et al. (2014) T cell interleukin-15 surface expression in chimpanzees infected with human immunodeficiency virus. Cell Immunol 288(1-2): 24–30. (FC)
- 5. Goval J-J et al. (2006) Germinal center dendritic cells express more ICAM-1 than extrafollicular dendritic cells and ICAM-1/LFA-1 interactions are involved in the capacity of dendritic cells to induce PBMCs proliferation. J Histochem Cytochem 54(1): 75–84. (FC)
- 6. Haringman J et al. (2005) Reliability of computerized image analysis for the evaluation of serial synovial biopsies in randomized controlled trials in rheumatoid arthritis. Arthritis Res Ther 7(4): R862–R867. (IHC)
- 7. Kan EA et al. (1983) Noncovalently bonded subunits of 22 and 28 kd are rapidly internalized by T cells reacted with anti-Leu-4 antibody. J Immunol 131(2): 536–9. (FC, IP)

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