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FITC Anti-Human CD3 (SK7) Antibody
Catalog # ATB10430

Specification

FITC Anti-Human CD3 (SK7) Antibody - Product Information

Application	**FC**
Isotype	**Mouse IgG1, kappa**
Concentration	**5 µL (1 µg)/test**
Reactivity	**Human**
Formulation	**10mM NaH2PO4, 150 mM NaCl, 0.09% NaN3,0.1%gelatin,pH7.2 0.1% gelatin, pH7.2**

FITC Anti-Human CD3 (SK7) Antibody - Additional Information

Gene ID	**916**
Gene Name	**CD3E**

Alternative Name(s)
Leu-4, T3

Format
FITC

Storage Conditions
2-8°C protected from light

FITC Anti-Human CD3 (SK7) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FITC Anti-Human CD3 (SK7) Antibody - Images

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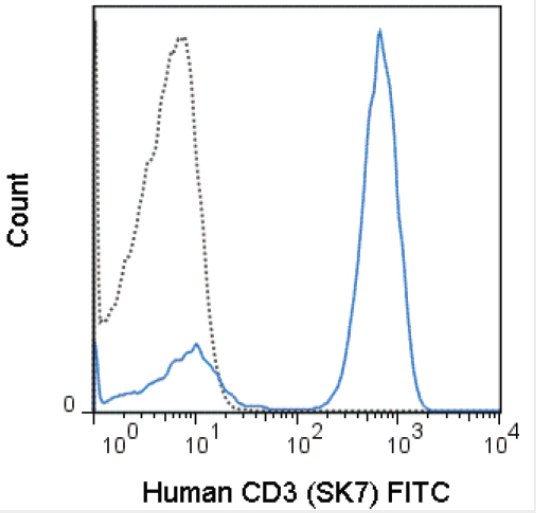

Human peripheral blood lymphocytes were stained with 5 uL (1 ug) FITC Anti-Human CD3 (SK7) manufactured by Tonbo Biosciences (left panel) or eBioscience (right panel).

FITC Anti-Human CD3 (SK7) Antibody - Background

The SK7 antibody is specific for human CD3e, also known as CD3 epsilon, a 20 kDa subunit of the T cell receptor complex, along with CD3 gamma and CD3 delta. These integral membrane protein chains assemble with additional chains of the T cell receptor (TCR), as well as CD3 zeta chain, to form the T cell receptor – CD3 complex. Together with co-receptors CD4 or CD8, the complex serves to recognize antigens bound to MHC molecules on antigen-presenting cells. These interactions promote T cell receptor signaling (T cell activation), inducing cell proliferation, differentiation, production of cytokines or activation-induced cell death. CD3 is differentially expressed during thymocyte-to-T cell development and on all mature T cells.

The SK7 antibody is a widely used phenotypic marker for human T cells. This antibody may induce T cell activation in the presence of monocytes. The antibody has also been demonstrated to be cross-reactive with Chimpanzee CD3. Binding of clone SK7 can be blocked by an alternative Anti-Human CD3 clone, OKT3. Please choose the appropriate format for each application.

FITC Anti-Human CD3 (SK7) Antibody - References

McMichael AJ, Beverly PCL, Gilks W, et al, ed. Leukocyte Typing III: White Cell Differentiation Antigens. New York: Oxford University Press; 1987.

Kaneoka H, Perez-Rojas G, Sasasuki T, Benike CJ and Engleman EG. 1983. J Immunol. 131: 158–164. (in vitro activation)

Haringman JJ, Vinkenoog M, Gerlag DM, Smeets TJM, Zwinderman AH and Tak PP. 2005. Arthritis Res Ther. 7(4): R862-R867. (Immunohistochemistry – frozen tissue)

Goval J-J, Greimers R, Boniver J and de Leval L. 2006. J Histochem Cytochem. 54(1): 75-84. (Immunofluorescence – frozen tissue)

Wrann CD, Laue T, Hubner L, Kuhlmann S, Jacobs R, Goudeva L and Nave H. 2012. Am J Physiol Endocrinol Metab. 302(1): E108-E116. (Flow Cytometry)

Soto PC, Stein LL, Hurtado-Ziola N, Hedrick SM and Varki A. 2010. J Immunol. 184(8): 4185-4195. (Flow Cytometry – Chimpanzee)

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