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PE-Cy7 Anti-Human CD3 (SK7) Antibody
Catalog # ATB10441

Specification

PE-Cy7 Anti-Human CD3 (SK7) Antibody - Product Information

Application	**FC**
Isotype	**Mouse IgG1, kappa**
Concentration	**5 µL (0.125 µg)/test**
Reactivity	**Human**
Formulation	**10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH7.2**

PE-Cy7 Anti-Human CD3 (SK7) Antibody - Additional Information

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

Alternative Name(s)
Leu-4, T3

Format
PE-Cy7

Storage Conditions
2-8°C protected from light

PE-Cy7 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

PE-Cy7 Anti-Human CD3 (SK7) Antibody - Images

PE-Cy7 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.