

**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 $\mu$ L (0.125 $\mu$ g)/test
Reactivity	Human
Formulation	10 mM NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, 0.09% NaN <sub>3</sub> , 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 Cytometry](#)
- [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.