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PE Anti-Human CD4 (OKT4) Antibody
Catalog # ATB10167

Specification

PE Anti-Human CD4 (OKT4) Antibody - Product Information

Application	**FC**
Isotype	**Mouse IgG2b, kappa**
Concentration	**5 uL (0.06 ug)/test**
Reactivity	**Human**
Formulation	**10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH7.2**
Host	**Mouse**

PE Anti-Human CD4 (OKT4) Antibody - Additional Information

Gene ID	**920**
Gene Name	**CD4**

Alternative Name(s)
Leu-3, T4

Format
PE

Preparation
This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

Application Notes
This antibody preparation has been pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5 uL per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 uL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10e5 to 1x10e8 cells.

Storage Conditions
2-8°C protected from light

PE Anti-Human CD4 (OKT4) Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

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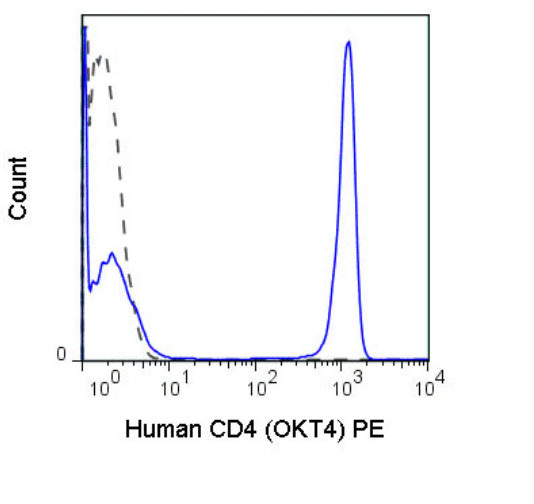
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PE Anti-Human CD4 (OKT4) Antibody - Images



Human peripheral blood lymphocytes were stained with 5 uL (0.06 ug) PE Anti-Human CD4 (ATB10167) (solid line) or 0.06 ug PE Mouse IgG2b isotype control.

PE Anti-Human CD4 (OKT4) Antibody - Background

The OKT4 antibody reacts with human CD4, a 59 kDa protein which acts as a co-receptor for the T cell receptor (TCR) in its interaction with MHC Class II molecules on antigen-presenting cells. The extracellular domain of CD4 binds to the beta-2 domain of MHC Class II, while its cytoplasmic tail provides a binding site for the tyrosine kinase lck, facilitating the signaling cascade that initiates T cell activation. CD4, and co-receptors CCR5 and CXCR4, may also be utilized by HIV-1 to enter T cells. Human CD4 is typically expressed on thymocytes, some mature T cell populations such as Th17 and T regulatory (Treg) cells, as well as on dendritic cells.The OKT4 antibody is widely used as a phenotypic marker for CD4 expression. It is cross-reactive with CD4 in several non-human species, including Chimpanzee, Cynomolgus and Rhesus. This antibody recognizes a different epitope, and thus does not block binding of, the alternative Anti-Human CD4 antibody clone RPA-T4 (Reinherz EL, et al. 1979. Proc. Natl. Acad. Sci. 76:4061-4065)