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FITC Anti-Human CD8a (OKT8) Antibody

Catalog # ATB10098

Specification

FITC Anti-Human CD8a (OKT8) Antibody - Product Information

Application	**FC**
Isotype	**Mouse IgG2a**
Concentration	**5 uL (0.125 ug)/test**
Reactivity	**Human**
Formulation	**10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH7.2**
Host	**Mouse**

FITC Anti-Human CD8a (OKT8) Antibody - Additional Information

Gene ID	**925**
Gene Name	**CD8A**

Alternative Name(s)
CD8 alpha, leu-2a

Format
FITC

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

FITC Anti-Human CD8a (OKT8) 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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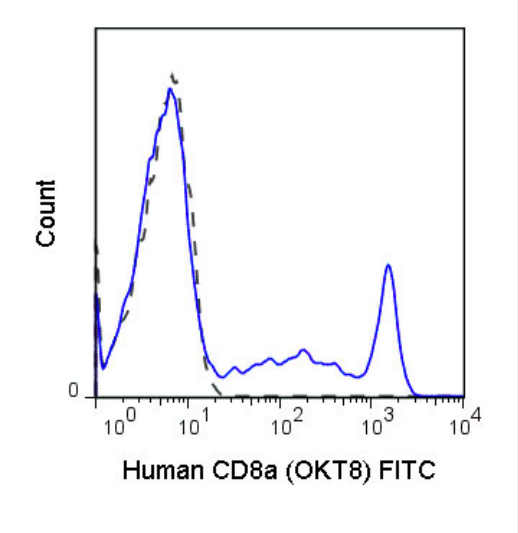
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FITC Anti-Human CD8a (OKT8) Antibody - Images



Human peripheral blood lymphocytes were stained with 5 uL (0.125 ug) Anti-Human CD8a FITC (ATB10098) (solid line) or 0.125 ug Mouse IgG2a FITC isotype control.

FITC Anti-Human CD8a (OKT8) Antibody - Background

The OKT8 antibody is specific for the 32-34 kDa alpha chain of human CD8, known as CD8a or CD8 alpha. CD8a can form a homodimer (CD8 alpha-alpha), but is more commonly expressed as a heterodimer with a second chain known as CD8b or CD8 beta. CD8 acts as a co-receptor for antigen recognition and subsequent T cell activation that is initiated upon binding of the T cell receptor (TCR) to antigen-bearing MHC Class I molecules. The cytoplasmic domains of CD8 provide binding sites for the tyrosine kinase lck, facilitating intracellular signaling events that lead to T cell activation, development, and cytotoxic effector functions. CD8+ cytotoxic T cells (CTLs) play an important role in inducing cell death of tumor cells, as well as cells infected by virus, bacteria or parasites. The OKT8 antibody is widely used as a phenotypic marker for CD8 on cytotoxic T cells, thymocytes, as well as on certain cell types that do not also express the TCR, including some NK cells and lymphoid dendritic cells. If used together with alternative antibodies Anti-Human CD8a clone RPA-T8 or Anti-Human CD8a clone Hit8a, the OKT8 antibody will not block binding of RPA-T8 or Hit8a.