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FITC Anti-Human CD8a (RPA-T8) Antibody
Catalog # ATB10099

Specification

FITC Anti-Human CD8a (RPA-T8) Antibody - Product Information

Application	FC
Isotype	Mouse IgG1, kappa
Concentration	5 uL (1 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 (RPA-T8) Antibody - Additional Information

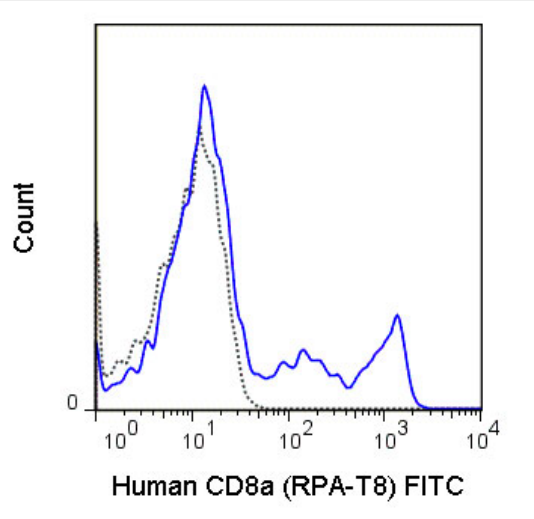
Gene ID	925
Gene Name	CD8A

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

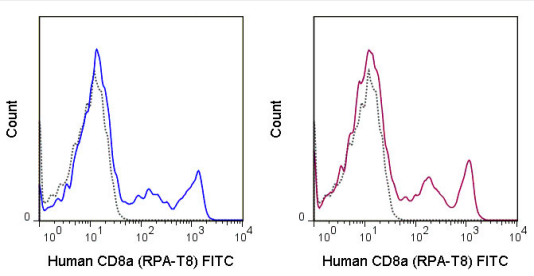
Format
FITC

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.



Human peripheral blood lymphocytes were stained with 5 uL (1 ug) FITC Anti-Human CD8a (ATB10099) (solid line) or 1.0 ug FITC Mouse IgG1 isotype control.



Human peripheral blood lymphocytes were stained with 5 uL (1.0 ug) FITC Anti-Human CD8a (RPA-T8) manufactured by Tonbo Biosciences (left panel) or eBioscience (right panel).

FITC Anti-Human CD8a (RPA-T8) Antibody - Background

The RPA-T8 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

Storage Conditions
2-8°C protected from light

FITC Anti-Human CD8a (RPA-T8) 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

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 RPA-T8 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. It is cross-reactive with CD8 in several non-human species, including Baboon, Chimpanzee, Cynomolgus and Rhesus. If used together with an alternative Anti-Human CD8a clone, Hit8a, the RPA-T8 antibody will not block binding of Hit8a to CD8a.