

**violetFluor™ 450 Anti-Human CD8 (SK1) Antibody**  
**Catalog # ATB10435****Specification****violetFluor™ 450 Anti-Human CD8 (SK1) Antibody - Product Information**

Application	FC
Isotype	Mouse IgG1, kappa
Concentration	5 µL (0.125 µg)/test
Reactivity	Human
Formulation	10mM NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, 0.09% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 0.1% gelatin, pH7.2 0.1% gelatin, pH7.2

**violetFluor™ 450 Anti-Human CD8 (SK1) Antibody - Additional Information**

Gene ID	925
Gene Name	CD8A
Alternative Name(s)	
CD8 alpha, leu-2a	

**Format**

violetFluor™ 450

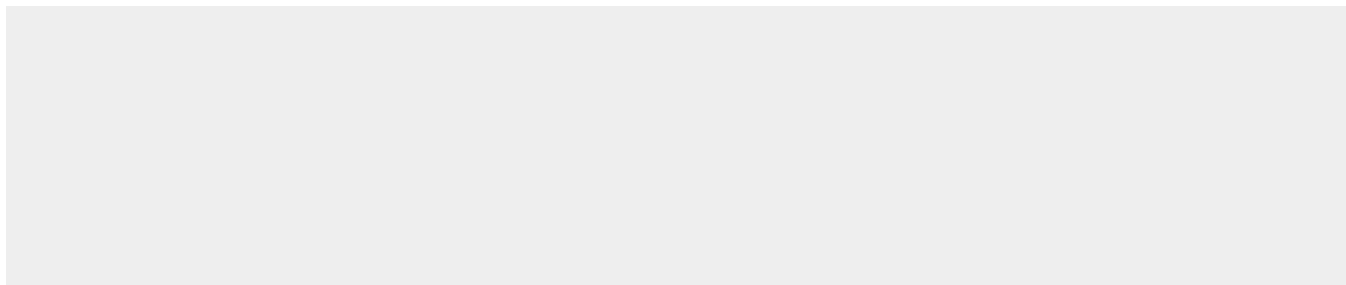
**Storage Conditions**

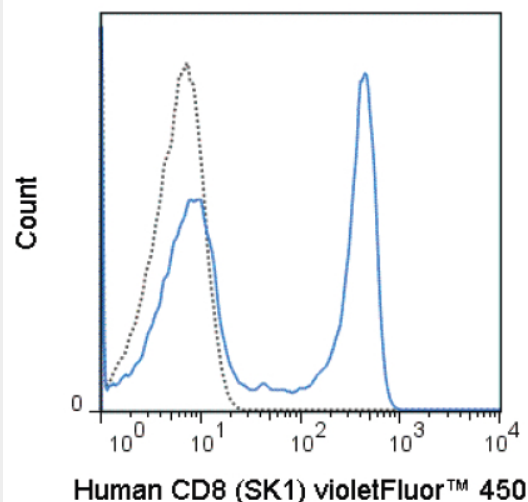
2-8°C protected from light

**violetFluor™ 450 Anti-Human CD8 (SK1) 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](#)

**violetFluor™ 450 Anti-Human CD8 (SK1) Antibody - Images**



Human peripheral blood lymphocytes were stained with 5 uL (0.125 ug) violetFluor™ 450 Anti-Human CD8 (ATB10435) (solid line) or 0.125 ug violetFluor™ 450 Mouse IgG1 isotype control (dashed line).

#### **violetFluor™ 450 Anti-Human CD8 (SK1) Antibody - Background**

The SK1 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 SK1 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, RPA-T8, the SK1 antibody will not block binding of RPA-T8 to CD8a.