

Datasheet for ABIN6657876  
**anti-CD8 alpha antibody (APC)**



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2 Images

## Overview

Quantity:	100 µg
Target:	CD8 alpha (CD8A)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CD8 alpha antibody is conjugated to APC
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunoprecipitation (IP)

## Product Details

Purpose:	CD8a Allophycocyanin Antibody
Immunogen:	Anti-CD8a Antibody (Monoclonal) was produced by repeated immunizations with CD8a antigen.
Clone:	53-6-7
Isotype:	IgG2a kappa
Cross-Reactivity (Details):	Cross reactivity with CD8a from other sources has not been tested.
Purification:	Allophycocyanin conjugated CD8a Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against mouse CD8a.
Sterility:	Sterile filtered
Labeling Ratio:	1-2

## Target Details

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Target:	CD8 alpha (CD8A)
Alternative Name:	CD8a ( <a href="#">CD8A Products</a> )
Background:	<p>Synonyms: T-cell surface glycoprotein CD8 alpha chain, T-cell surface glycoprotein Lyt-2, CD8a, Cd8a, Lyt-2, Lyt2</p> <p>Background: CD8a antibody reacts with the 32-34 kDa alpha subunit of mouse 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 in 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 53-6.7 antibody is widely used as a phenotypic marker for mouse CD8a expression 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.</p> <p>Gene Name: Cd8a</p>
Gene ID:	12525
NCBI Accession:	<a href="#">NP_001074579</a>
UniProt:	<a href="#">P01731</a>
Pathways:	<a href="#">TCR Signaling</a>

## Application Details

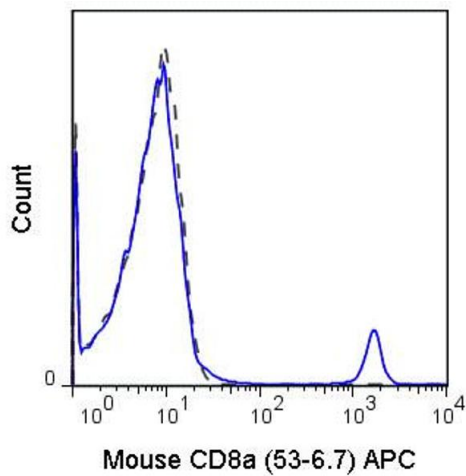
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Application Notes:	<p>Immunoprecipitation_Dilution: User Optimized</p> <p>Immunohistochemistry_Dilution: User Optimized</p> <p>Flow_Cytometry_Dilution: 10 µL/10<sup>6</sup> cells (0.1 µg)</p>
Comment:	Anti-CD8a is tested for FLOW and useful for Immunohistochemistry and Immunoprecipitation using mouse spleen cells, or an appropriate cell type (where indicated). Researchers should determine optimal titers for applications that are not stated.
Restrictions:	For Research Use only

## Handling

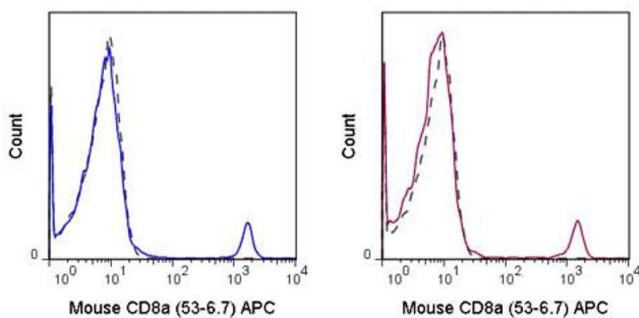
Format:	Liquid
Buffer:	Buffer: 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 0.1 % Gelatin Preservative: 0.09 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE.
Expiry Date:	6 months

## Images



### Flow Cytometry

**Image 1.** Flow Cytometry of anti-CD8a APC - 200-526-N77 Flow Cytometry of anti-CD8a Allophycocyanin Conjugated Monoclonal Antibody. Cells: C57Bl/6 mouse splenocytes. Stimulation: none. Antibody: (Dotted Line) APC Rat IgG2a isotype control; (Solid Line) Allophycocyanin Anti-CD8a antibody using 0.25 ug.



### Flow Cytometry

**Image 2.** Flow Cytometry of anti-CD8a APC - 200-526-N77 Flow Cytometry of anti-CD8a Allophycocyanin Conjugated Monoclonal Antibody. Cells: C57Bl/6 mouse splenocytes. Stimulation: none. Antibody: (Dotted Line) APC Rat IgG2a isotype control; (Blue Line) Allophycocyanin Anti-CD8a antibody using 0.25 ug; (Red Line) APC Anti-CD8a antibody control.