

Product datasheet

Anti-CD8 antibody [YTS169.4] - BSA and Azide free  
ab230292

2 Images

Overview

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<b>Product name</b>	Anti-CD8 antibody [YTS169.4] - BSA and Azide free
<b>Description</b>	Rat monoclonal [YTS169.4] to CD8 - BSA and Azide free
<b>Host species</b>	Rat
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	The details of the immunogen for this antibody are not available.
<b>Positive control</b>	Flow Cyt: Mouse spleen cells.
<b>General notes</b>	<i>ab230292 is a PBS-only buffer format of <a href="#">ab22378</a>. Please refer to <a href="#">ab22378</a> for recommended dilutions, protocols, and image data.</i>

Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	IgG fraction
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	YTS169.4
<b>Isotype</b>	IgG2b

Applications

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Our [Abpromise guarantee](#) covers the use of **ab230292** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
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Flow Cyt

Use 0.1-1µg for 10<sup>6</sup> cells.

[ab18536](#) - Rat monoclonal IgG2b, is suitable for use as an isotype control with this antibody

## Target

### Function

Identifies cytotoxic/suppressor T-cells that interact with MHC class I bearing targets. CD8 is thought to play a role in the process of T-cell mediated killing. CD8 alpha chains binds to class I MHC molecules alpha-3 domains.

### Involvement in disease

Defects in CD8A are a cause of familial CD8 deficiency (CD8 deficiency) [MIM:608957]. Familial CD8 deficiency is a novel autosomal recessive immunologic defect characterized by absence of CD8+ cells, leading to recurrent bacterial infections.

### Sequence similarities

Contains 1 Ig-like V-type (immunoglobulin-like) domain.

### Post-translational modifications

All of the five most C-terminal cysteines form inter-chain disulfide bonds in dimers and higher multimers, while the four N-terminal cysteines do not.

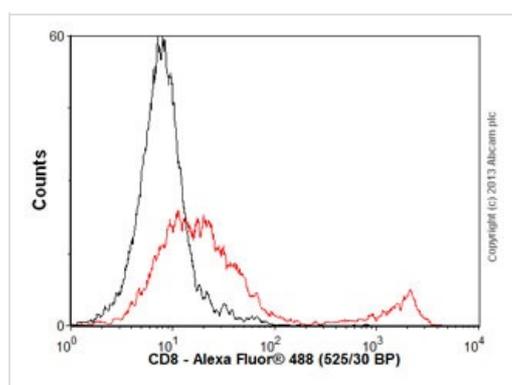
### Cellular localization

Secreted and Cell membrane.

### Form

CD8 beta tissue specificity: Isoform 1, isoform 3, isoform 5, isoform 6, isoform 7 and isoform 8 are expressed in both thymus and peripheral CD8+ T-cells. Expression of isoform 1 is higher in thymus CD8+ T-cells than in peripheral CD8+ T-cells. Expression of isoform 6 is higher in peripheral CD8+ T-cells than in thymus CD8+ T-cells. CD8 beta PTM: Phosphorylated as a consequence of T-cell activation.

## Images

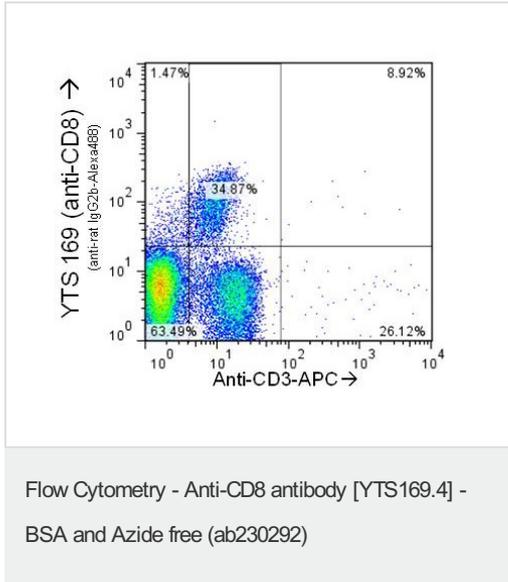


Flow Cytometry - Anti-CD8 antibody [YTS169.4] - BSA and Azide free ([ab230292](#))

Overlay histogram showing mouse spleen cells (C57BL/6) stained with [ab22378](#) (red line). The cells were incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody ([ab22378](#), 0.1µg/1x10<sup>6</sup> cells) for 30 min at 4°C. The secondary antibody used was Alexa Fluor<sup>®</sup> 488 goat anti-rat IgG (H&L) ([ab150157](#)) at 1/2000 dilution for 30 min at 4°C. Isotype control antibody (black line) was rat IgG2b [RTK4530] ([ab18541](#), 2µg/1x10<sup>6</sup> cells) used under the same conditions.

Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, L-Arginine and sodium azide ([ab22378](#)).



Normal mouse (CBA) spleen cells (red cell lysed) double stained with **ab22378** (0.3 µg/mL, detected with Alexa Fluor® 488-conjugated monoclonal mouse anti-rat antibody) and an APC conjugated hamster anti-mouse CD3 antibody. **ab22378** stains an expected subpopulation of CD8 alpha positive T cells.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, L-Arginine and sodium azide (**ab22378**).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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