

Product datasheet

Anti-CD8 alpha antibody [YTS169.4] ab22378

★★★★★ [14 Abreviews](#) [83 References](#) [2 Images](#)

Overview

Product name	Anti-CD8 alpha antibody [YTS169.4]
Description	Rat monoclonal [YTS169.4] to CD8 alpha
Host species	Rat
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
Positive control	Flow Cyt: Mouse spleen cells.
General notes	<p>ab22378 is not expected to work in standard western blots, under denaturing conditions, or in IHC on formalin-fixed tissue. To our knowledge, ab22378 will only stain frozen sections or fresh cells, and will only immunoprecipitate the antigen from cell lysates in mild detergents such as NP40 or Triton-X100.</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: PBS, 6.97% L-Arginine</p>
Purity	IgG fraction

Clonality	Monoclonal
Clone number	YTS169.4
Isotype	IgG2b

Applications

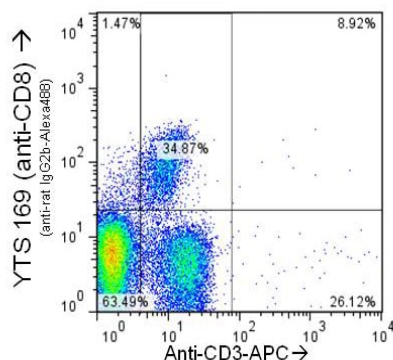
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab22378 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 0.1-1µg for 10 ⁶ cells. ab18536 - Rat monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

Target

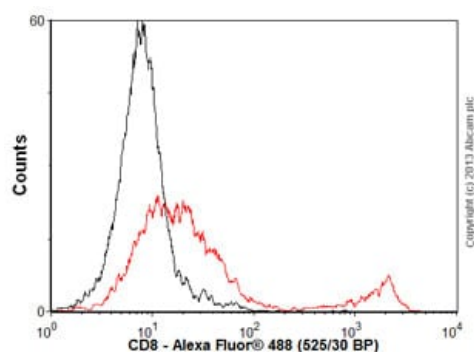
Function	Identifies cytotoxic/suppressor T-cells that interact with MHC class I bearing targets. CD8 is thought to play a role in the process of T-cell mediated killing. CD8 alpha chains binds to class I MHC molecules alpha-3 domains.
Involvement in disease	Defects in CD8A are a cause of familial CD8 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 carboxyl-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.

Images



Flow Cytometry - Anti-CD8 alpha antibody
[YTS169.4] (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.



Flow Cytometry - Anti-CD8 alpha antibody
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Overlay histogram showing mouse spleen cells (C57BL/6) labeling CD8 alpha 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, 0.1 µg/1x10⁶ cells) for 30 min at 4°C. The secondary antibody used was Alexa Fluor® 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**, 2 µg/1x10⁶ 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.

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