Anti-CD8 alpha antibody [C8/468 + C8/144B] ab199016

Overview

Product name: Anti-CD8 alpha antibody [C8/468 + C8/144B]
Description: Mouse monoclonal [C8/468 + C8/144B] to CD8 alpha
Host species: Mouse
Tested applications: Suitable for: IHC-P
Species reactivity: Reacts with: Human

Immunogen: This product was produced with the following immunogens:
- Recombinant fragment corresponding to Human CD8 alpha. [C8/468] Database link: P01732
- Synthetic peptide corresponding to Human CD8 alpha. (13 amino acid synthetic peptide from the C-terminal cytoplasmic domain) [C8/144B] Database link: P01732

Positive control: IHC-P: Tonsil tissue.

General notes: Please note that this antibody is an oligoclonal antibody. It is a cocktail of monoclonal antibodies that have been carefully selected. Oligoclonal antibodies have not only the specificity and batch-to-batch consistency of a monoclonal antibody, but also have the advantage of the sensitivity of a polyclonal antibody due to their ability to recognize multiple epitopes on an antigen.

Clone C8/468: Mouse IgG1
Clone C8/144B: Mouse IgG1

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.

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

Properties

Form: Liquid
term. Avoid freeze/thaw cycle.

Storage buffer
pH: 7.2
Preservative: 0.05% Sodium azide
Constituents: 99% PBS, 0.05% BSA

Purity
Protein G purified

Purification notes
ab199016 was purified from Bioreactor Concentrate.

Clonality
Monoclonal

Clone number
C8/468 + C8/144B

Isotype
IgG1

Applications

The Abpromise guarantee
Our Abpromise guarantee covers the use of ab199016 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐ (1)</td>
<td>Use a concentration of 1 - 2 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. 30 minutes at room temperature.</td>
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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
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD8 alpha antibody [C8/468 + C8/144B] (ab199016)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling CD8 alpha with ab199016 at 2 µg/mL for 30 minutes at room temperature. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at room temperature for 20 minutes.

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

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