

Product datasheet

Anti-CD8 alpha antibody [EPR22483-288] ab245118

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [4 References](#) [5 Images](#)

Overview

Product name	Anti-CD8 alpha antibody [EPR22483-288]
Description	Rabbit monoclonal [EPR22483-288] to CD8 alpha
Host species	Rabbit
Tested applications	Suitable for: IHC-P, Flow Cyt, IP Unsuitable for: ICC/IF or WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human colon and tonsil tissue. Flow Cyt: Human peripheral blood mononuclear cells. IP: CD8 alpha IP in human thymus lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22483-288

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab245118 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
IHC-P	★★★★★ (1)	1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt		1/400.
IP		1/30.

Application notes

Is unsuitable for ICC/IF or WB.

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.

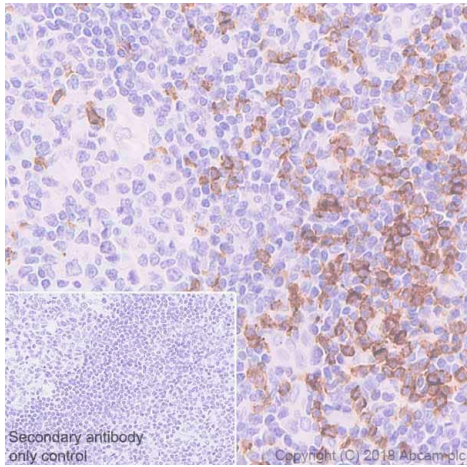
Post-translational modifications

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

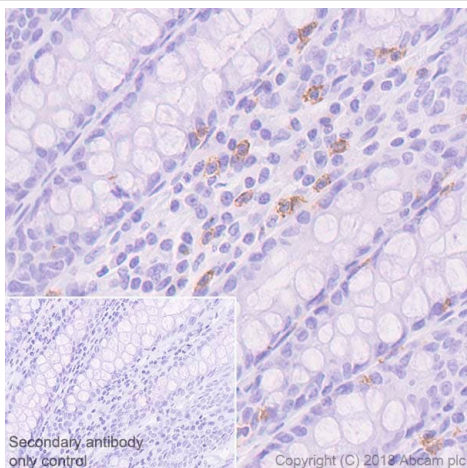
Secreted and Cell membrane.

Images



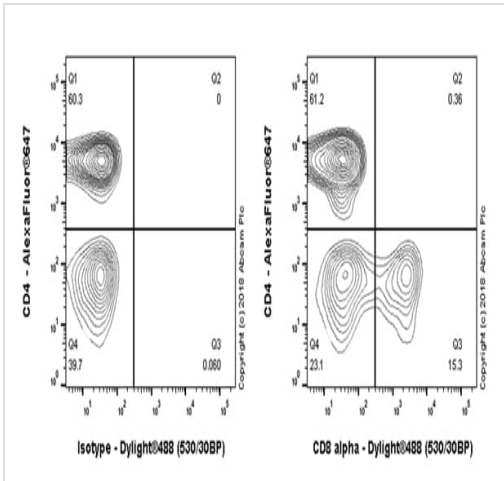
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD8 alpha antibody [EPR22483-288] (ab245118)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling CD8 alpha with ab245118 at 1/1000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining on the T cell zone of human tonsil (PMID: 16504163) is observed. Counterstained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD8 alpha antibody [EPR22483-288] (ab245118)

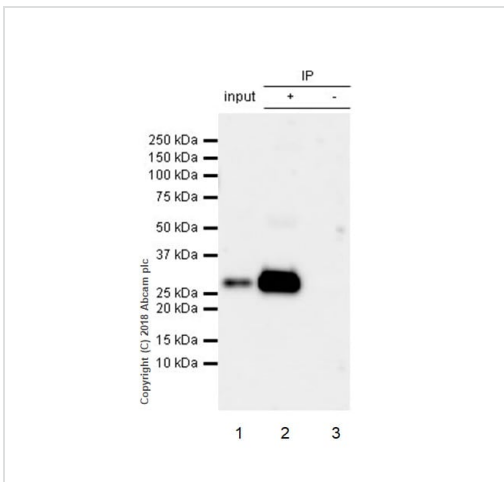
Immunohistochemical analysis of paraffin-embedded human colon tissue labeling CD8 alpha with ab245118 at 1/1000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining on lymphocytes of human colon (PMID: 26310568) is observed. Counterstained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



Flow Cytometry - Anti-CD8 alpha antibody
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Flow cytometric analysis of human peripheral blood mononuclear cells (PBMC) labeling CD8 alpha with ab245118 at 1/400 (right panel) compared with a Rabbit monoclonal IgG (**ab172730**) (left panel). Goat anti rabbit IgG (Dylight® 488, **ab98462**) at 1/2000 dilution was used as the secondary antibody.

Cells were stained with rabbit IgG (Left) or anti-CD8 alpha RabMab (Right). Then stained with Alexa Fluor® 647-conjugated anti-CD4. The expressions of CD4 and CD8 alpha are mutually exclusive. Gated on viable lymphocytes.



Immunoprecipitation - Anti-CD8 alpha antibody
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CD8 alpha was immunoprecipitated from 0.35 mg human thymus lysate with ab245118 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab245118 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

Lane 1: Human thymus lysate 10 µg (Input).
Lane 2: ab245118 IP in human thymus lysate.
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab245118 in human thymus lysate.

Blocking/Dilution buffer: 5% NFDm/TBST.
Exposure time: 30 seconds.

Why choose a recombinant antibody?

- Research with confidence**
Consistent and reproducible results
- Long-term and scalable supply**
Recombinant technology
- Success from the first experiment**
Confirmed specificity
- Ethical standards compliant**
Animal-free production

Anti-CD8 alpha antibody [EPR22483-288]
(ab245118)

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

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