

### Anti-CD8 alpha antibody [EPR21769] ab217344

**重组** RabMAb

★★★★★ **4 Abreviews** **96 References** **9 图像**

#### 概述

产品名称	Anti-CD8 alpha抗体[EPR21769]
描述	兔单克隆抗体[EPR21769] to CD8 alpha
宿主	Rabbit
经测试应用	<b>适用于:</b> WB, IHC-Fr, IHC-P, Flow Cyt, IP
种属反应性	<b>与反应:</b> Mouse
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Mouse thymus, spleen and lymph node lysates. IHC-P: Mouse spleen and colon tissues. IHC-Fr: Mouse spleen and thymus tissues. Flow Cyt: Mouse primary splenocytes. IP: Mouse thymus lysate.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### 性能

形式	Liquid
存放说明	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.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol, 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR21769

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab217344于以下的经测试应用

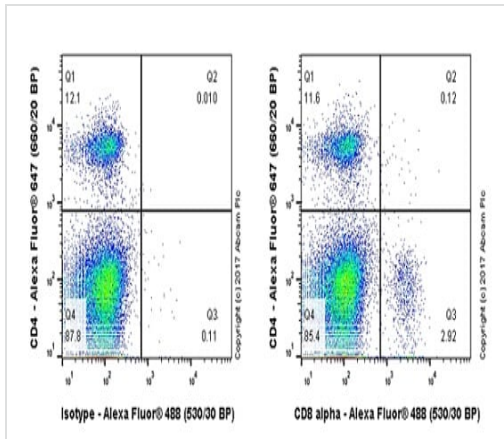
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000. Detects a band of approximately 34-38 kDa (predicted molecular weight: 27 kDa).
IHC-Fr		1/500.
IHC-P	★★★★★ (4)	1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Background staining was observed in mouse testis samples.
Flow Cyt		1/500.
IP		1/30.

靶标

功能	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.
疾病相关	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.
序列相似性	Contains 1 Ig-like V-type (immunoglobulin-like) domain.
翻译后修饰	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.
细胞定位	Secreted and Cell membrane.

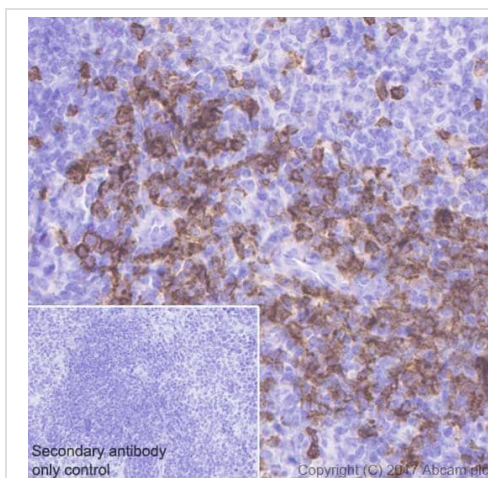
图片



Flow Cytometry - Anti-CD8 alpha antibody  
[EPR21769] (ab217344)

Flow cytometric analysis of mouse primary splenocytes labeling CD8 alpha with ab217344 at 1/500 dilution (right panel) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (left panel). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/2000 dilution was used as the secondary antibody.

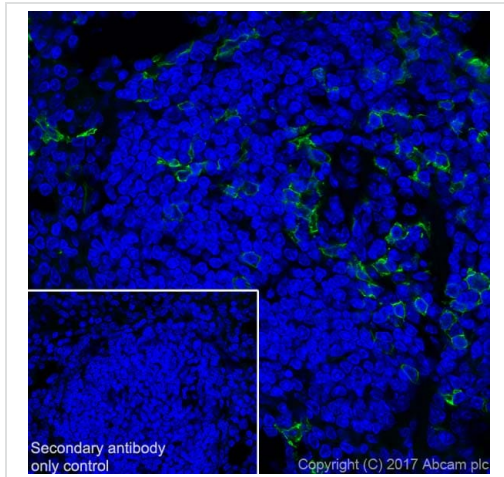
Cells were surface stained with CD4-Alexa Fluor® 647, then stained with rabbit IgG (Left) / ab217344 (Right) separately. CD4 and CD8 alpha are mutually exclusive expressed in mouse spleen. Gated on total viable cells.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD8 alpha antibody  
[EPR21769] (ab217344)

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling CD8 alpha with ab217344 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining on the white pulp of mouse spleen (PMID: 23482450; PMID: 25826597). Counter stained with Hematoxylin. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

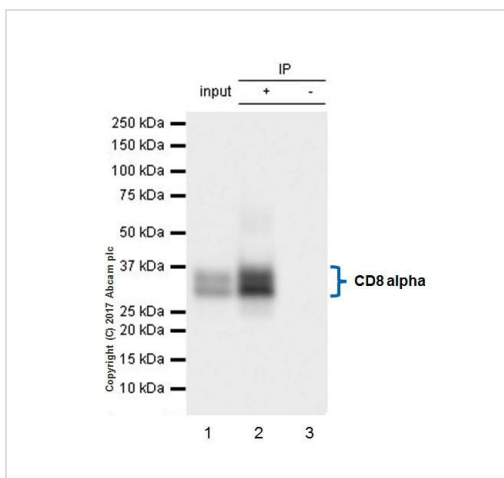


Immunohistochemistry (Frozen sections) - Anti-CD8 alpha antibody [EPR21769] (ab217344)

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized frozen mouse spleen tissue labeling CD8 alpha with ab217344 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Positive membrane staining on mouse spleen (PMID: 25616911).

The nuclear counter stain is DAPI (blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution.



Immunoprecipitation - Anti-CD8 alpha antibody [EPR21769] (ab217344)

CD8 alpha was immunoprecipitated from 0.35 mg of mouse thymus lysate with ab217344 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab217344 at 1/2000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: Mouse thymus lysate 10 µg (Input).

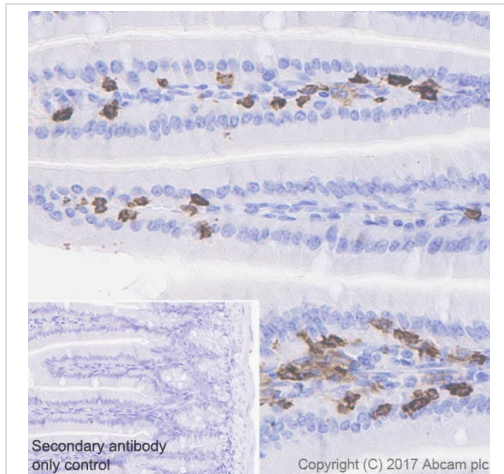
Lane 2: ab217344 IP in mouse thymus lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab214344** in mouse thymus lysate.

Exposure time: 5 seconds.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

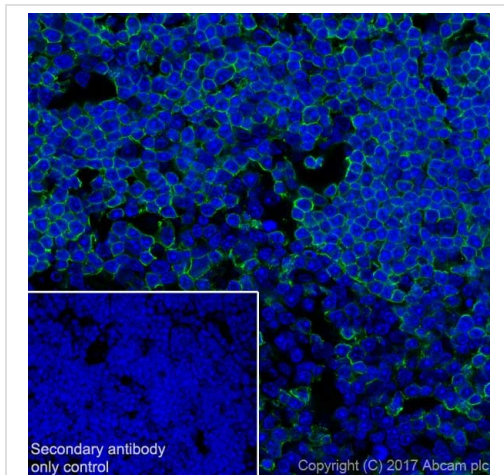
The two bands are different isoforms that are consistent with the literature (PMID 3085089).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD8 alpha antibody [EPR21769] (ab217344)

Immunohistochemical analysis of paraffin-embedded mouse colon tissue labeling CD8 alpha with ab217344 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining on stromal cells of mouse colon. Counter stained with Hematoxylin. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

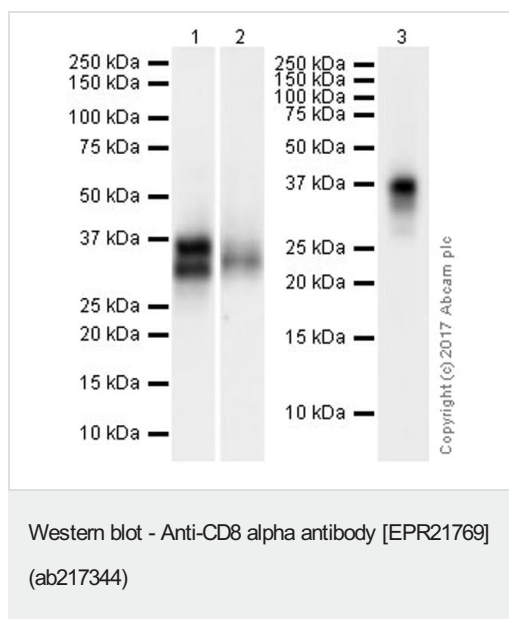


Immunohistochemistry (Frozen sections) - Anti-CD8 alpha antibody [EPR21769] (ab217344)

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized frozen mouse thymus tissue labeling CD8 alpha with ab217344 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor<sup>®</sup> 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Positive membrane staining on mouse thymus tissue section (PMID: 25616911).

The nuclear counter stain is DAPI (blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor<sup>®</sup> 488) (**ab150077**) at 1/1000 dilution.



**All lanes :** Anti-CD8 alpha antibody [EPR21769] (ab217344) at 1/1000 dilution

**Lane 1 :** Mouse thymus lysate at 20 µg

**Lane 2 :** Mouse spleen lysate at 20 µg

**Lane 3 :** Mouse lymph node lysate at 10 µg

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Developed using the ECL technique.

**Predicted band size:** 27 kDa

**Observed band size:** 35 kDa

**Exposure time :** Lane 1: 3 sconds; Lane 2: 40 seconds; Lane 3: 15 seconds.

Blocking/Dilution buffer: 5% NFDM/TBST.

The two bands are different isoforms that are consistent with the literature (PMID 3085089).

The blot was developed on a BIO-RAD® ChemiDoc™ MP instrument.

Tissue Microarray (TMA) data for ab217344			
Mouse normal tissue samples			
Mouse cardiac muscle	×	Mouse pancreas	×
Mouse cerebrum	×	Mouse skeletal muscle	×
Mouse colon	× (immune cells ✓)	Mouse skin	×
Mouse kidney	×	Mouse spleen	✓
Mouse liver	×	Mouse stomach	×
Mouse lung	×	Mouse testis	×

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD8 alpha antibody [EPR21769] (ab217344)

Tissue Microarrays stained for "Anti-CD8 alpha antibody [EPR21769]" using "ab217344" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). The sections were incubated with ab217344 at +4°C overnight followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer).

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 [EPR21769] (ab217344)

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

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