

Product datasheet

Anti-CD8 alpha antibody [CAL38] ab237723

Recombinant **RabMAb**

[5 References](#) [5 Images](#)

Overview

Product name	Anti-CD8 alpha antibody [CAL38]
Description	Rabbit monoclonal [CAL38] to CD8 alpha
Host species	Rabbit
Tested applications	Suitable for: IHC-Fr, IP, IHC-P Unsuitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Mouse spleen tissue. IHC-Fr: Mouse Thymus tissue. IP: Mouse thymus tissue lysate.

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: 0.05% Sodium azide Constituent: PBS
Purity	Protein A purified
Purification notes	Purity >99%.
Clonality	Monoclonal
Clone number	CAL38
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab237723 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-Fr		1/250. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)
IP		1/20.
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Application notes

Is unsuitable for Flow Cyt.

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.

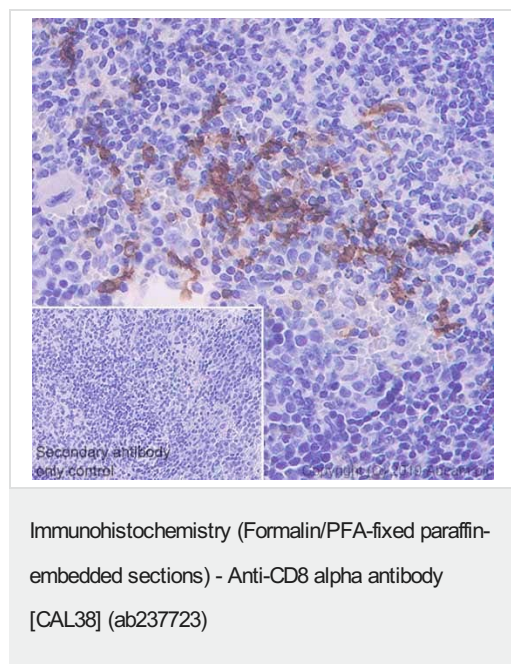
Post-translational modifications

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.

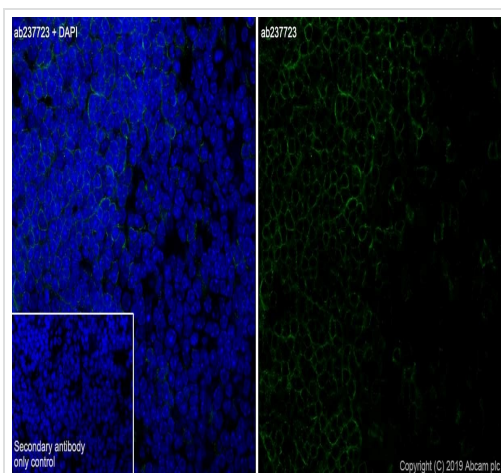
Images



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling CD8 alpha with ab237723 at 1/500 dilution, followed by the ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Positive staining on the mouse spleen is shown. The section was incubated with ab237723 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument.

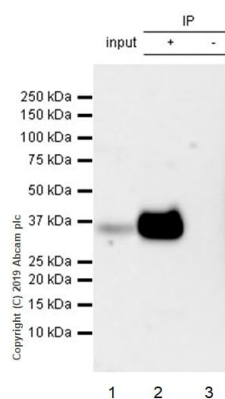
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is the ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).



Immunohistochemistry (Frozen sections) - Anti-CD8 alpha antibody [CAL38] (ab237723)

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized frozen mouse thymus tissue labeling CD8 alpha with ab237723 at 1/250 dilution, followed by a AlexaFluor®488 Goat anti-Rabbit secondary antibody (**ab150077**) at 1/1000 dilution. Positive staining on the membrane of T cells in mouse thymus (PMID: 29042640) is observed. Counterstained with DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a AlexaFluor®488 Goat anti-Rabbit secondary antibody (**ab150077**) at 1/1000 dilution.



Immunoprecipitation - Anti-CD8 alpha antibody [CAL38] (ab237723)

CD8 alpha was immunoprecipitated from 0.35 mg of Mouse thymus tissue lysate with ab237723 at 1/20 dilution. Western blot was performed on the immunoprecipitate using ab237723 at 1/1000 dilution. VeriBlot for IP secondary antibody (HRP) (**ab131366**) was used as the secondary antibody at 1/5000 dilution.

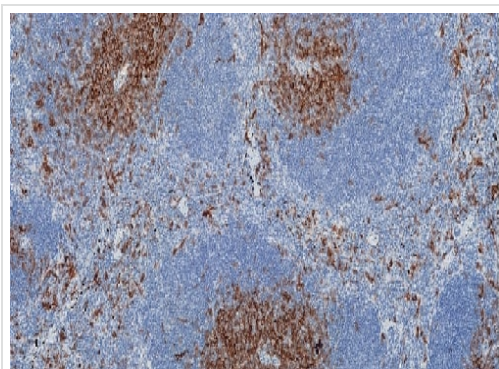
Lane 1: Mouse thymus tissue lysate 10µg (input)

Lane 2: ab237723 IP in mouse thymus tissue lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab237723 in Mouse thymus lysate

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





Exposure time: 30 seconds.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD8 alpha antibody [CAL38] (ab237723)

Formalin-fixed, paraffin-embedded mouse spleen tissue stained for CD8 alpha with ab237723 at 0.125 µg/ml in immunohistochemical analysis.

Why choose a recombinant antibody?

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

Anti-CD8 alpha antibody [CAL38] (ab237723)

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