

Product datasheet

Anti-CD3 epsilon antibody [EPR22667-12] - BSA and Azide free ab255697

Recombinant RabMAb

5 Images

Overview

Product name	Anti-CD3 epsilon antibody [EPR22667-12] - BSA and Azide free
Description	Rabbit monoclonal [EPR22667-12] to CD3 epsilon - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, IP Unsuitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Recombinant fragment within Mouse CD3 epsilon aa 1-100. The exact sequence is proprietary. Database link: P22646
Positive control	IP: EL4.IL2 whole cell lysate. IHC-P: Mouse spleen and lung tissue. ICC/IF: EL4.IL2 cells.
General notes	Ab255697 is the carrier-free version of ab231775 . This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

Use our [conjugation kits](#) for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

ab255697 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

Maxpar® is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next

breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22667-12
Isotype	IgG

Applications

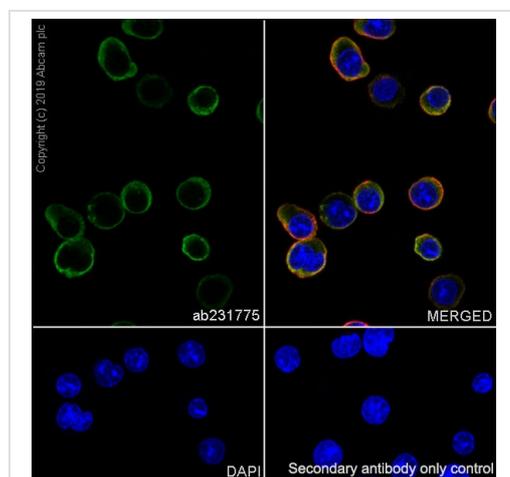
Our [Abpromise guarantee](#) covers the use of **ab255697** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 18, 22 kDa (predicted molecular weight: 21 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
Application notes		Is unsuitable for Flow Cyt.
Target		
Function		The CD3 complex mediates signal transduction.
Sequence similarities		Contains 1 Ig-like (immunoglobulin-like) domain. Contains 1 ITAM domain.
Cellular localization		Membrane.

Images

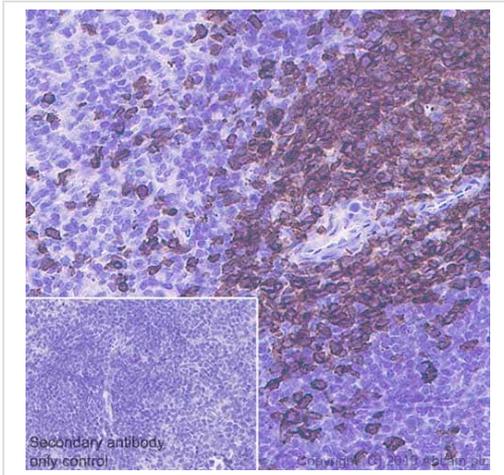


Immunocytochemistry/ Immunofluorescence - Anti-CD3 epsilon antibody [EPR22667-12] - BSA and Azide free (ab255697)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized EL4.IL2 (mouse lymphoma T lymphocyte cell line) cells labeling CD3 epsilon with [ab231775](#) at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing membranous and cytoplasmic staining in EL4.IL2 cell line is observed. The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594) ([ab195889](#)) at 1/200 dilution (red).

Antibody only control: Used PBS instead of primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab231775](#)).



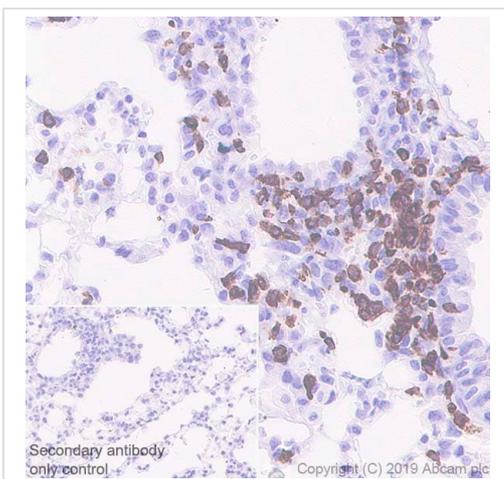
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD3 epsilon antibody [EPR22667-12] - BSA and Azide free (ab255697)

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling CD3 epsilon with [ab231775](#) at 1/5000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Positive staining on the mouse spleen (PMID: 18648532) is observed. Counter stained with hematoxylin.

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

Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab231775](#)).



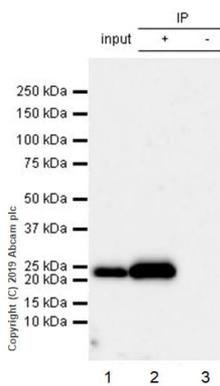
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD3 epsilon antibody [EPR22667-12] - BSA and Azide free (ab255697)

Immunohistochemical analysis of paraffin-embedded mouse lung tissue labeling CD3 epsilon with [ab231775](#) at 1/5000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Positive staining on the T lymphocytes on mouse lung (PMID: 22888136) is observed. Counter stained with hematoxylin.

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

Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab231775](#)).



Immunoprecipitation - Anti-CD3 epsilon antibody [EPR22667-12] - BSA and Azide free (ab255697)

CD3 epsilon was immunoprecipitated from 0.35 mg of EL4.IL2 (mouse lymphoma T lymphocyte cell line) whole cell lysate with [ab231775](#) at 1/30 dilution. Western blot was performed from the immunoprecipitate using [ab231775](#) at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used as secondary antibody at 1/5000 dilution.

Lane 1: EL4.IL2 whole cell lysate [amount of lysate 10 µg (Input)].

Lane 2: [ab231775](#) IP in EL4.IL2 whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab231775](#) in EL4.IL2 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.
Exposure time: 30 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab231775](#)).

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

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

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