# abcam

### Product datasheet

## Anti-CD3 epsilon antibody [EPR20752] ab215212

Recombinant RabMAb

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Overview

**Product name** Anti-CD3 epsilon antibody [EPR20752]

**Description** Rabbit monoclonal [EPR20752] to CD3 epsilon

**Host species** Rabbit

**Tested applications** Suitable for: IHC-P, WB, IHC-Fr, IP

Species reactivity Reacts with: Mouse

**Immunogen** Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control WB: Mouse thymus and lymph node lysate; EL4.IL-2 whole cell lysate. IHC-P: Mouse spleen and

thymus tissue. IHC-fr: Mouse spleen tissue. IP: EL4.IL-2 whole cell lysate.

**General notes** 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**.

**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 EPR20752

Isotype lgG

#### **Applications**

#### The Abpromise guarantee

Our <u>Abpromise guarantee</u> covers the use of ab215212 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		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Perform heat mediated antigen retrieval using <a href="mailto:ab93684">ab93684</a> (Tris/EDTA buffer, pH 9.0).
WB		1/1000. Detects a band of approximately 21 kDa (predicted molecular weight: 21 kDa).
IHC-Fr		1/800. Perform heat mediated antigen retrieval by using sodium citrate buffer (10 mM citrate pH 6.0 + 0.05% Tween-20)
IP		1/30.

#### **Target**

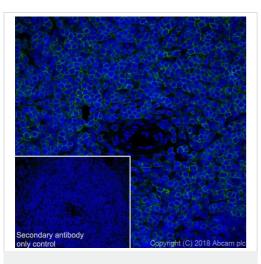
**Function** The CD3 complex mediates signal transduction.

Sequence similarities Contains 1 lg-like (immunoglobulin-like) domain.

Contains 1 ITAM domain.

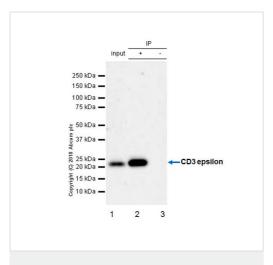
**Cellular localization** Membrane.

#### **Images**



Immunohistochemistry (Frozen sections) - Anti-CD3 epsilon antibody [EPR20752] (ab215212)

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilised mouse spleen tissue labelling CD3 epsilon with ab215212 at 1/800 dilution, foloowed by AlexaFluor<sup>®</sup>488 Goat anti-Rabbit secondary (ab150077) at 1/1000 dilution. Positive membrane staining on cells localized in the periarterial lymphatic sheath in mouse spleen tissue section is observed (PMID: 20880086) Counterstained with DAPI. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is AlexaFluor<sup>®</sup>488 Goat anti-Rabbit secondary (ab150077) at 1/1000 dilution.



Immunoprecipitation - Anti-CD3 epsilon antibody [EPR20752] (ab215212)



Western blot - Anti-CD3 epsilon antibody [EPR20752] (ab215212) CD3 epsilon was immunoprecipitated from 10 µg of EL4.IL-2 (Mouse lymphoma T lymphocyte) whole cell lysate with ab215212 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab215212 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/5000 dilution

**Lane 1:** EL4.lL-2 (Mouse lymphoma T lymphocyte) whole cell lysate 10 μg (input).

Lane 2: ab215212 IP in EL4.IL-2 whole cell lysate (+)

**Lane 3:** Rabbit monoclonal IgG (<u>ab172730</u>) instead of ab215212 in EL4.IL-2 whole cell lysate (-).

Blocking and dilution buffer and concentration: 5% NFDM/TBST Exposure time: 3 minutes

**All lanes :** Anti-CD3 epsilon antibody [EPR20752] (ab215212) at 1/1000 dilution

Lanes 1-2: Mouse lymph node

**Lane 3**: EL4.IL-2 (mouse lymphoma T lymphocyte), whole cell lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

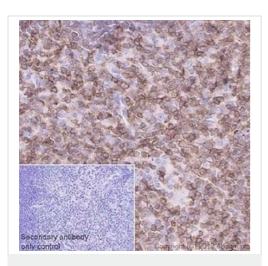
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (<u>ab97051</u>) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size:** 21 kDa **Observed band size:** 21 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Exposure time: Lanes 1-2: 3 minutes

Lane 3:15 seconds

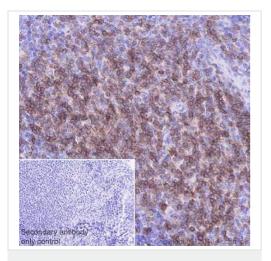


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CD3 epsilon antibody
[EPR20752] (ab215212)

Immunohistochemical analysis of Paraffin-embedded sections mouse thymus tissue labeling CD3 epsilon with ab215212 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Mainly membranous staining on T cells in mouse thymus is observed (PMID: 18648532). Counter stained with Hematoxylin.

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

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

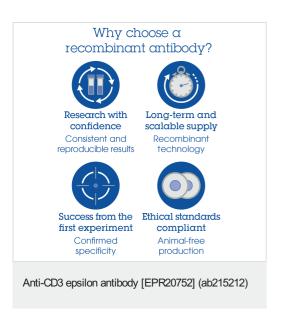


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CD3 epsilon antibody
[EPR20752] (ab215212)

Immunohistochemical analysis of Paraffin-embedded sections mouse spleen tissue labeling CD3 epsilon with ab215212 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Mainly membranous staining on T cells in mouse spleen is observed (PMID: 18648532). Counter stained with Hematoxylin.

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

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



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

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