

Product datasheet

Anti-CD3 epsilon antibody [EP449E] α b52959

Recombinant **RabMAb**

★★★★★ **3 Abreviews** **15 References** [9 Images](#)

Overview

Product name	Anti-CD3 epsilon antibody [EP449E]
Description	Rabbit monoclonal [EP449E] to CD3 epsilon
Host species	Rabbit
Specificity	This antibody reacts with CD3 epsilon. It does not cross-react with other subunits of CD3.
Tested applications	Suitable for: WB, IHC-P, IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human CD3 epsilon aa 150-250. Derived from the cytoplasmic domain. Database link: P07766
Positive control	Jurkat cell lysate and human spleen tissue. IP: Jurkat whole cell 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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant</p>

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP449E
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab52959 in the following tested applications.

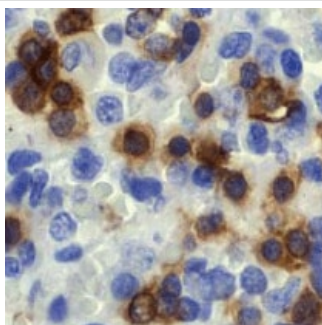
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000 - 1/10000. Detects a band of approximately 23 kDa (predicted molecular weight: 23 kDa).
IHC-P	★★★★★ (2)	1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		1/20.

Target

Function	The CD3 complex mediates signal transduction.
Sequence similarities	Contains 1 Ig-like (immunoglobulin-like) domain. Contains 1 ITAM domain.
Cellular localization	Membrane.

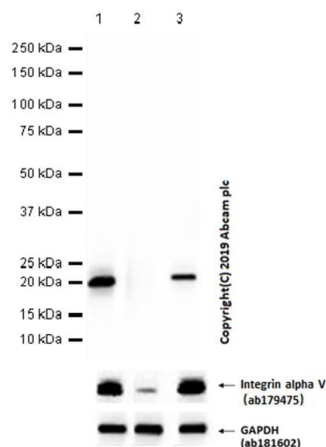
Images



ab52959 at 1/250-1/500 dilution staining CD3 epsilon in human spleen by Immunohistochemistry, Paraffin embedded tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD3 epsilon antibody [EP449E] (ab52959)



Western blot - Anti-CD3 epsilon antibody [EP449E] (ab52959)

All lanes : Anti-CD3 epsilon antibody [EP449E] (ab52959) at 1/1000 dilution (purified)

Lane 1 : Jurkat(Human T cell leukemia T lymphocyte)membrane fraction cell lysate

Lane 2 : Jurkat (Human T cell leukemia T lymphocyte) without membrane fraction cell lysate

Lane 3 : Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

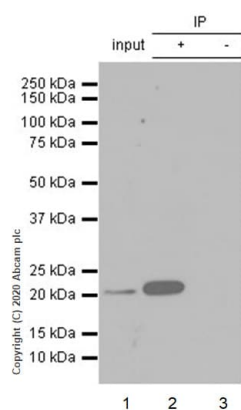
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 23 kDa

Observed band size: 23 kDa

Exposure time: 20 seconds

Blocking/Dilution buffer and concentration: 5% NFDm/TBST



Immunoprecipitation - Anti-CD3 epsilon antibody [EP449E] (ab52959)

Purified ab52959 at 1/20 dilution (1µg) immunoprecipitating CD3 epsilon in Jurkat whole cell lysate.

Lane 1 (input): Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate 10µg

Lane 2 (+): ab52959 + Jurkat whole cell lysate.

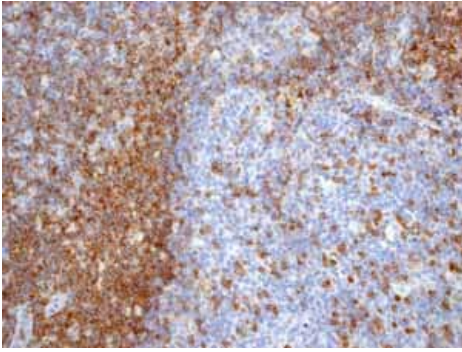
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab52929** in Jurkat whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm/TBST.

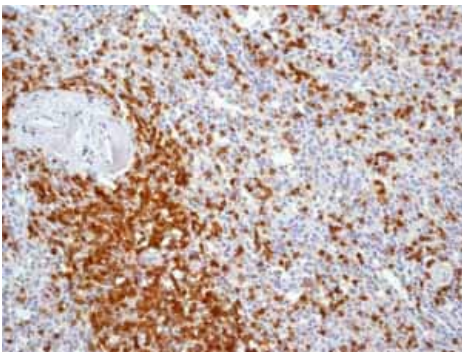
Observed band size: 23 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD3 epsilon antibody [EP449E] (ab52959)

ab52959 showing positive staining in Normal tonsil tissue.

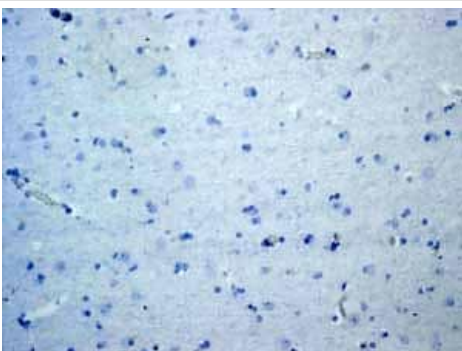
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD3 epsilon antibody [EP449E] (ab52959)

ab52959 showing positive staining in Normal spleen tissue.

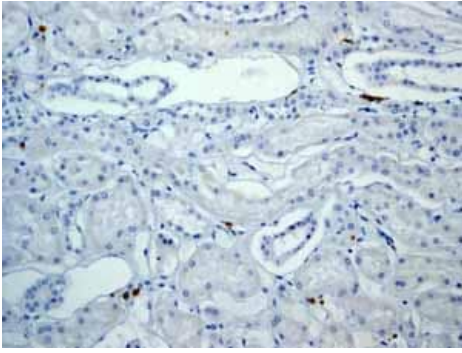
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD3 epsilon antibody [EP449E] (ab52959)

ab52959 showing negative staining in Normal brain tissue.

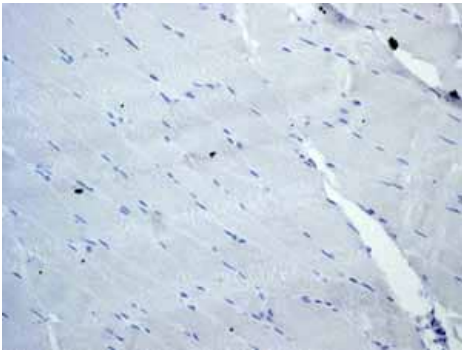
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD3 epsilon antibody [EP449E] (ab52959)

ab52959 showing negative staining in Normal kidney tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

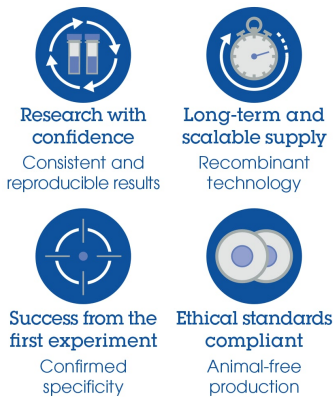


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD3 epsilon antibody [EP449E] (ab52959)

ab52959 showing negative staining in Skeletal muscle tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Anti-CD3 epsilon antibody [EP449E] (ab52959)

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

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