

## Product datasheet

### Anti-CD3 epsilon antibody [EPR5361(2)] ab133628

Recombinant RabMAb

[1 References](#) [6 Images](#)

#### Overview

Product name	Anti-CD3 epsilon antibody [EPR5361(2)]
Description	Rabbit monoclonal [EPR5361(2)] to CD3 epsilon
Host species	Rabbit
Tested applications	<b>Suitable for:</b> ICC/IF, WB, IP, Flow Cyt <b>Unsuitable for:</b> IHC-P
Species reactivity	<b>Reacts with:</b> Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Jurkat and Human thymus lysates, HuT78 cells IP: Hut-78 whole cell lysate. ICC/IF: human jurkat.
General notes	<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> <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**                      EPR5361(2)

**Isotype**                              IgG

## Applications

**The Abpromise guarantee**              Our **Abpromise guarantee** covers the use of ab133628 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
ICC/IF		Use at an assay dependent concentration.
WB		1/10000 - 1/50000. Detects a band of approximately 23 kDa (predicted molecular weight: 23 kDa).
IP		1/10 - 1/100.
Flow Cyt		1/100 - 1/500. <b><u>ab172730</u></b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

**Application notes**                      Is unsuitable for IHC-P.

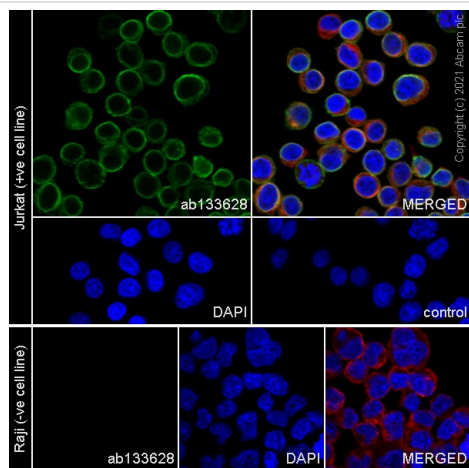
## Target

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

**Sequence similarities**              Contains 1 Ig-like (immunoglobulin-like) domain.  
Contains 1 ITAM domain.

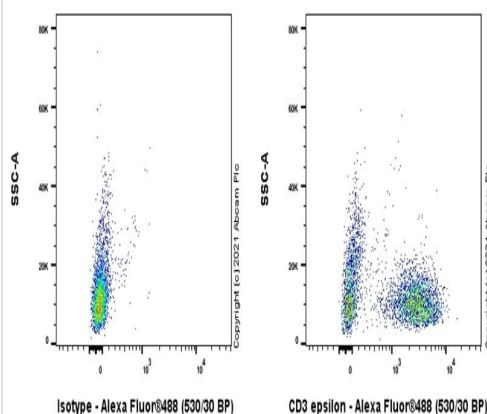
**Cellular localization**              Membrane.

## Images



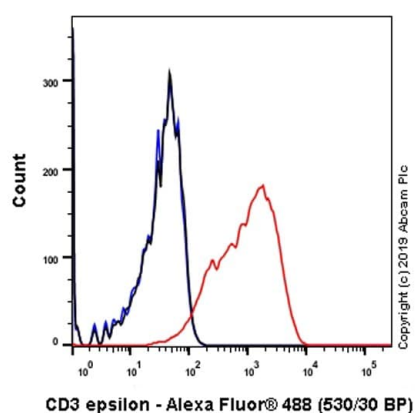
Immunocytochemistry/ Immunofluorescence - Anti-CD3 epsilon antibody [EPR5361(2)] (ab133628)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed Jurkat (human T cell leukemia T lymphocyte) cells labelling CD3 epsilon with ab133628 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed ([ab150081](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on Jurkat cells. Counterstained with Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) ([ab195889](#)) at 1:200 dilution. The negative controls was Raji cell line.



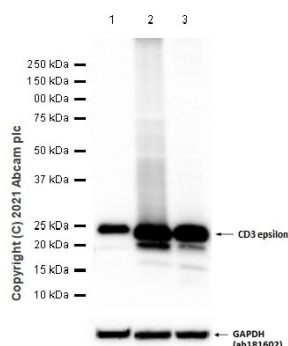
Flow Cytometry - Anti-CD3 epsilon antibody [EPR5361(2)] (ab133628)

Flow cytometric analysis of Human peripheral blood mononuclear cells (PBMC) labelling CD3 with ab133628 at 1/100 dilution (red) compared with a Rabbit monoclonal IgG ([ab172730](#)) (left) and an unlabelled control (cells without incubation with primary antibody and secondary antibody). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)), at 1/2000 dilution was used as the secondary antibody.



Flow Cytometry - Anti-CD3 epsilon antibody [EPR5361(2)] (ab133628)

Flow cytometry overlay histogram of Jurkat (Human T cell leukemia T lymphocyte) cells labelling CD3 epsilon with ab133628 at 1/100 dilution (red) compared with a Rabbit monoclonal IgG ([ab172730](#)) (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 488) ([ab150077](#)), at 1/2000 dilution was used as the secondary antibody.



Western blot - Anti-CD3 epsilon antibody  
[EPR5361(2)] (ab133628)

**All lanes :** Anti-CD3 epsilon antibody [EPR5361(2)] (ab133628) at 1/1000 dilution (Anti-CD3 epsilon antibody)

**Lane 1 :** Human peripheral blood mononuclear cell (PBMC) lysate with NFDM/TBST

**Lane 2 :** Human thymus tissue lysate with NFDM/TBST

**Lane 3 :** Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate with NFDM/TBST

Lysates/proteins at 20 µg per lane.

Blocking peptides at 5 % 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:** 10 seconds



Immunoprecipitation - Anti-CD3 epsilon antibody  
[EPR5361(2)] (ab133628)

Purified ab133628 at 1/50 dilution (2µg) immunoprecipitating CD3 epsilon in Hut-78 whole cell lysate.

Lane 1 (input): Hut-78 (Human Sezary syndrome cutaneous T lymphocyte) whole cell lysate 10µg

Lane 2 (+): ab133628 + Hut-78 whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab133628 in Hut-78 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

### 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-CD3 epsilon antibody [EPR5361(2)] (ab133628)

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

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