

Product datasheet

Anti-CD3 zeta (phospho Y142) antibody [EP265(2)Y] ab68235

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [9 References](#) [5 Images](#)

Overview

Product name	Anti-CD3 zeta (phospho Y142) antibody [EP265(2)Y]
Description	Rabbit monoclonal [EP265(2)Y] to CD3 zeta (phospho Y142)
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF, WB, IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Jurkat whole cell lysate (ab7899)
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>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</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 +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: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP265(2)Y
Isotype	IgG

Applications

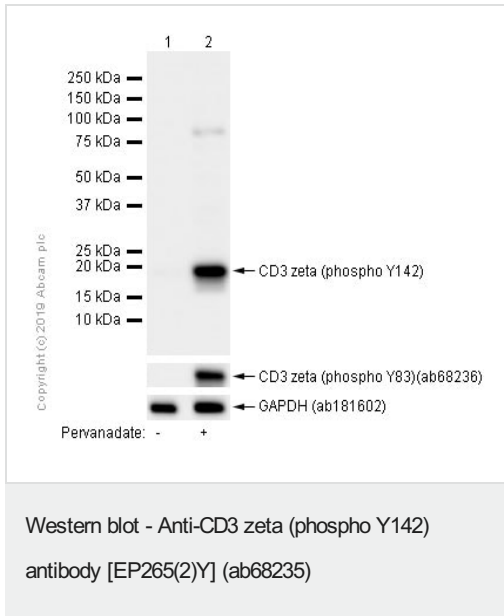
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab68235 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/120.
ICC/IF	★★★★★ (1)	1/250 - 1/500.
WB		1/500 - 1/2000. Detects a band of approximately 21 kDa (predicted molecular weight: 19 kDa).
IP		1/20 - 1/50.

Target

Function	Probable role in assembly and expression of the TCR complex as well as signal transduction upon antigen triggering.
Involvement in disease	Defects in CD247 are the cause of immunodeficiency due to defect in CD3-zeta (CD3ZID) [MIM:610163]. An immunological deficiency characterized by T-cells impaired immune response to alloantigens, tetanus toxoid and mitogens.
Sequence similarities	Belongs to the CD3Z/FCER1G family. Contains 3 ITAM domains.
Domain	The ITAM domains mediate interaction with SHB.
Post-translational modifications	Phosphorylated on Tyr residues after T-cell receptor triggering.
Cellular localization	Membrane.

Images



All lanes : Anti-CD3 zeta (phospho Y142) antibody [EP265(2)Y] (ab68235) at 1/1000 dilution (Purified)

Lane 1 : Jurkat (Human T cell leukemia T lymphocyte) whole cell lysates

Lane 2 : Jurkat (Human T cell leukemia T lymphocyte) treated with 50mM pervanadate for 5 minutes whole cell lysates

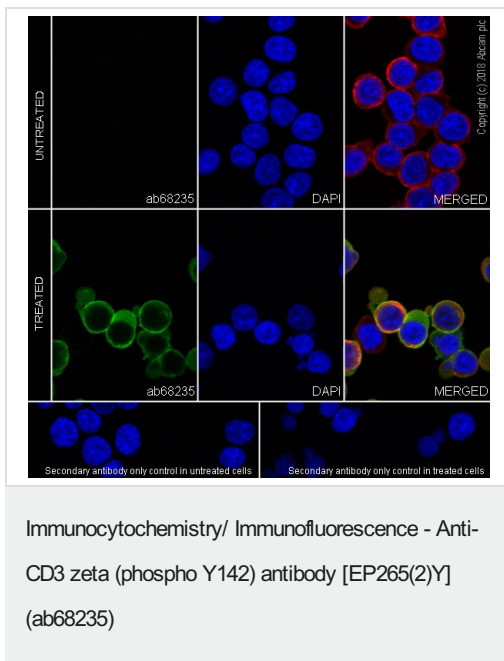
Lysates/proteins at 15 µg per lane.

Secondary

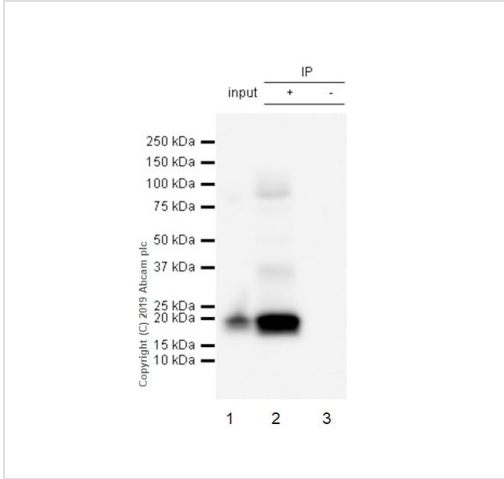
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 19 kDa

Observed band size: 19 kDa



Immunocytochemistry/ Immunofluorescence analysis of Jurkat (Human T cell leukemia T lymphocyte) treated with 1mM pervanadate for 30 minutes cells labeling CD3 zeta with purified ab68235 at 1/500 dilution (0.2 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunoprecipitation - Anti-CD3 zeta (phospho Y142) antibody [EP265(2)Y] (ab68235)

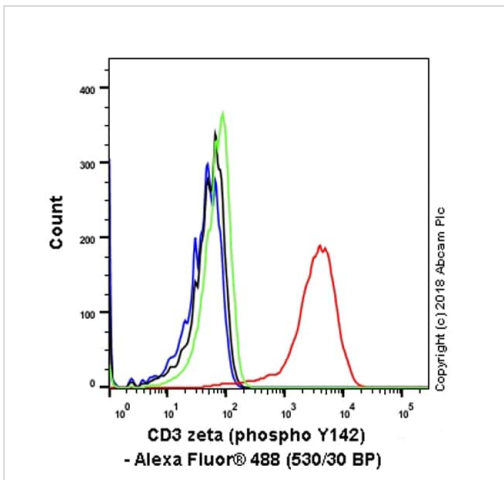
ab68235 (purified) at 1/20 dilution (0.5ug) immunoprecipitating CD3 zeta in Jurkat treated with 50nM pervanadate for 5 minutes whole cell lysate whole cell lysate. Jurkat (Human T cell leukemia T lymphocyte) treated with 50nM pervanadate for 5 minutes whole cell lysate 10ug

Lane 2 (+): ab68235 & Jurkat treated with 50nM pervanadate for 5 minutes whole cell lysate whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab68235 in Jurkat treated with 50nM pervanadate for 5 minutes whole cell lysate

For western blotting, VeriBlot for IP secondary antibody (HRP) (**ab131366**) was used at 1/2000 dilution.

Blocking and diluting buffer: 5% NFDm/TBST.



Flow Cytometry (Intracellular) - Anti-CD3 zeta (phospho Y142) antibody [EP265(2)Y] (ab68235)

Intracellular Flow Cytometry analysis of Jurkat (Human T cell leukemia T lymphocyte) treated with 50nM pervanadate for 5 minutes cells labeling CD3 zeta with purified ab68235 at 1/120 dilution (1µg/ml) (red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue). Untreated Jurkat cells (Green).

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 zeta (phospho Y142) antibody [EP265(2)Y]
(ab68235)

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

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