

FITC Anti-CD3 zeta (phospho Y83) antibody [EP776(2)Y] ab237453

Recombinant RabMAb

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Overview

Product name	FITC Anti-CD3 zeta (phospho Y83) antibody [EP776(2)Y]
Description	FITC Rabbit monoclonal [EP776(2)Y] to CD3 zeta (phospho Y83)
Host species	Rabbit
Conjugation	FITC. Ex: 493nm, Em: 528nm
Tested applications	Suitable for: Flow Cyt (Intra), ICC
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC: Pervanadate treated Jurkat cells. Flow Cyt (intra): Pervanadate treated Jurkat cells.
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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: 30% Glycerol, 1% BSA, PBS</p>
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EP776(2)Y
Isotype	IgG

Applications

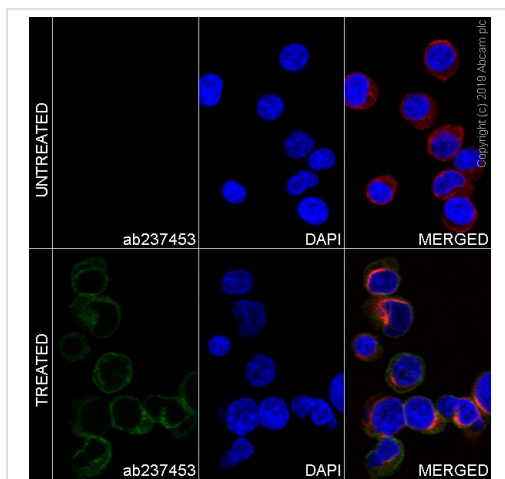
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab237453 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
ICC		Use at an assay dependent concentration.

Target

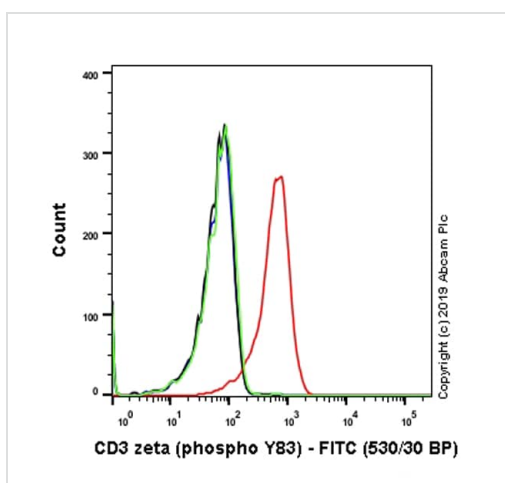
Function	Probable role in assembly and expression of the TCR complex as well as signal transduction upon antigen triggering.
Involvement in disease	Defects in CD247 are the cause of immunodeficiency due to defect in CD3-zeta (CD3ZID) [MIM:610163]. An immunological deficiency characterized by T-cells 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



Immunocytochemistry - FITC Anti-CD3 zeta
(phospho Y83) antibody [EP776(2)Y] (ab237453)

ab237453 staining CD3 zeta (phospho Y83) in Jurkat cells +/- pervanadate (1mM, 30min). The cells were fixed with 4% paraformaldehyde, permeabilized with 0.1% Triton X-100, then incubated ab237453 at 1/50 dilution (shown in green). Counterstained with **ab195889**, anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594), (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).



Flow Cytometry (Intracellular) - FITC Anti-CD3 zeta
(phospho Y83) antibody [EP776(2)Y] (ab237453)

Flow cytometry overlay histogram showing Jurkat + pervanadate (1mM, 30min)(Red) / Untreated control (Green) stained with ab237453. The cells were fixed with 4 % formaldehyde (10 min). The cells were incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interaction followed by the antibody (ab237453).

Isotype control antibody (Black) was Rabbit IgG, monoclonal [EPR25A] - Isotype Control (FITC) (**ab223339**) used at the same concentration and conditions as the primary antibody.

Unlabelled sample without incubation with primary antibody and secondary antibody (Blue) was also used as a control.

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

FITC Anti-CD3 zeta (phospho Y83) antibody
[EP776(2)Y] (ab237453)

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

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