




## Product datasheet

### FITC Anti-CD3 zeta antibody [H146-968] ab91493

★★★★★ [2 Abreviews](#) [2 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	FITC Anti-CD3 zeta antibody [H146-968]
<b>Description</b>	FITC Armenian hamster monoclonal [H146-968] to CD3 zeta
<b>Host species</b>	Armenian hamster
<b>Conjugation</b>	FITC. Ex: 493nm, Em: 528nm
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra)
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse <b>Predicted to work with:</b> Rat, Sheep, Rabbit, Cow, Pig, Xenopus laevis 
<b>Immunogen</b>	Synthetic peptide corresponding to Mouse CD3 zeta aa 150-250. Database link: <a href="#">P20963</a>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	Flow Cyt: Murine splenocytes
<b>General notes</b>	<p>Purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.</p> <p>This product was changed from ascites to tissue culture supernatant. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	pH: 8.00 Preservative: 0.097% Sodium azide Constituent: Tris buffered saline

<b>Purity</b>	Size exclusion
<b>Purification notes</b>	Purified from TCS
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	H146-968
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab91493 in the following tested applications.

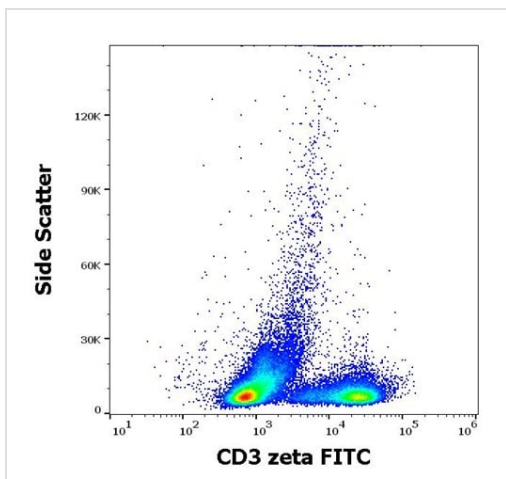
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>Flow Cyt (Intra)</b>		Use a concentration of 1 - 4 µg/ml. Not yet tested in other applications. Optimal dilutions/concentrations should be determined by the end user.

## Target

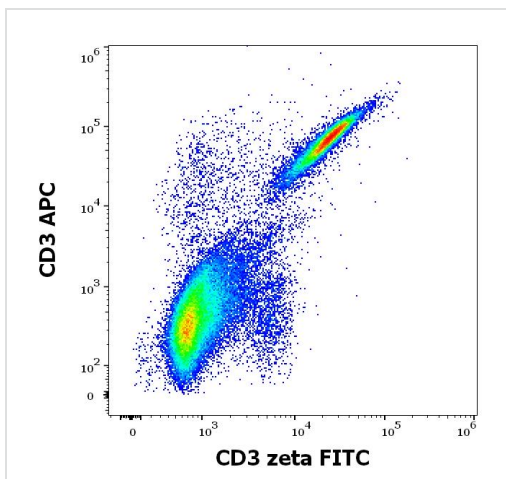
<b>Function</b>	Probable role in assembly and expression of the TCR complex as well as signal transduction upon antigen triggering.
<b>Involvement in disease</b>	Defects in CD247 are the cause of immunodeficiency due to defect in CD3-zeta (CD3ZID) [MIM:610163]. An immunological deficiency characterized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

## Images



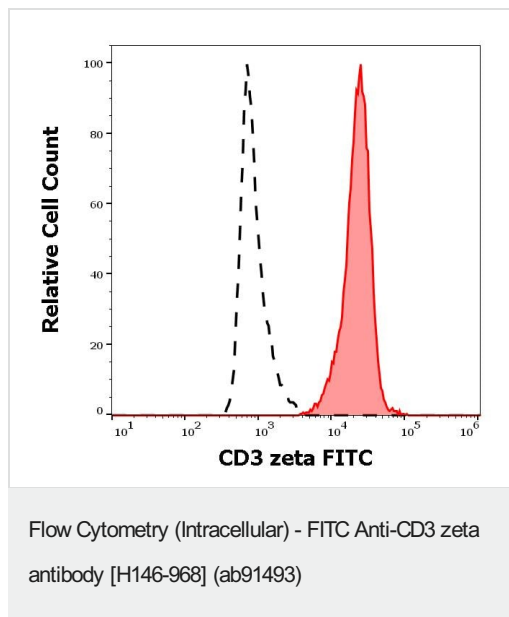
Intracellular staining flow cytometric pattern of murine splenocytes stained with ab91493: anti-cd3 zeta FITC antibody with a concentration of 3 $\mu$ g/ml in the sample

Flow Cytometry (Intracellular) - FITC Anti-CD3 zeta antibody [H146-968] (ab91493)



Murine splenocytes multicolour intracellular staining flow cytometric pattern using 3 $\mu$ g/ml ab91493 and anti-human CD3 APC antibody with 10 $\mu$ l reagent per 100 $\mu$ l peripheral whole blood

Flow Cytometry (Intracellular) - FITC Anti-CD3 zeta antibody [H146-968] (ab91493)



Flow cytometric intracellular staining analysis of murine splenocyte suspension using anti-CD3 zeta FITC antibody (ab91493) sample concentration of  $3\mu\text{g/ml}$ . There is separation between the CD3 positive CD3 zeta positive splenocytes (red) and CD3 negative CD3 zeta negative splenocytes in black.

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

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