

Product datasheet

Anti-CD3 zeta (phospho Y83) antibody [EP776(2)Y] ab68236

 RabMAb

7 References 5 图像

概述

产品名称	Anti-CD3 zeta (phospho Y83)抗体[EP776(2)Y]
描述	兔单克隆抗体[EP776(2)Y] to CD3 zeta (phospho Y83)
宿主	Rabbit
特异性	This antibody detects CD3 zeta phosphorylated on tyrosine 83.
经测试应用	适用于: Flow Cyt, ICC/IF, WB, IP 不适用于: IHC-P
种属反应性	与反应: Human
免疫原	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human CD3 zeta (phospho Y83). The exact sequence is proprietary.
阳性对照	WB: Jurkat cell lysate.
常规说明	Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#)

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.

This product is a recombinant rabbit monoclonal antibody.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.01% Sodium azide Constituents: 50% Glycerol, 0.05% BSA

纯度	Protein A purified
克隆	单克隆
克隆编号	EP776(2)Y
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab68236** in the following tested applications.

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

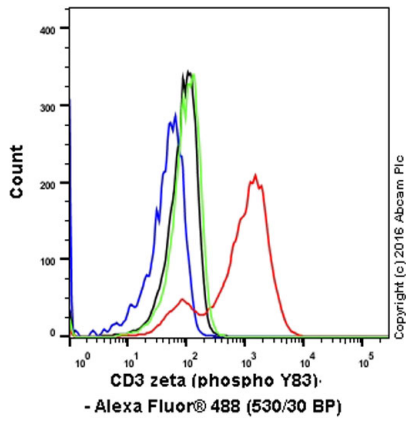
应用	Ab评论	说明
Flow Cyt		Use at an assay dependent concentration.
ICC/IF		1/100 - 1/250.
WB		1/5000 - 1/10000. Detects a band of approximately 18-22 kDa (predicted molecular weight: 18 kDa).
IP		1/50.

应用说明 Is unsuitable for IHC-P.

靶标

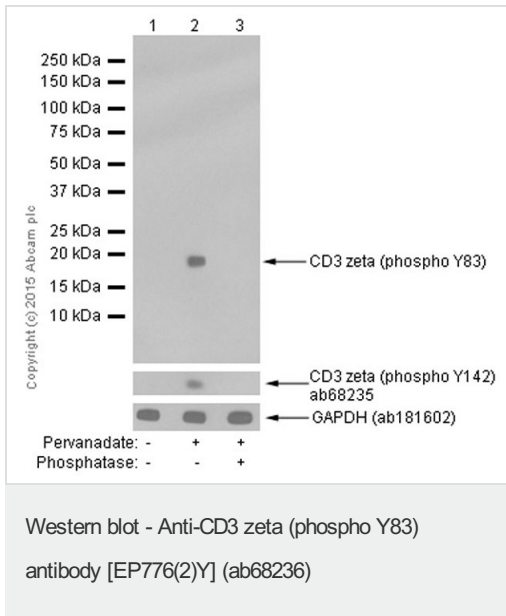
功能	Probable role in assembly and expression of the TCR complex as well as signal transduction upon antigen triggering.
疾病相关	Defects in CD247 are the cause of immunodeficiency due to defect in CD3-zeta (CD3ZID) [MIM:610163]. An immunological deficiency characterized by T-cells impaired immune response to alloantigens, tetanus toxoid and mitogens.
序列相似性	Belongs to the CD3Z/FCER1G family. Contains 3 ITAM domains.
结构域	The ITAM domains mediate interaction with SHB.
翻译后修饰	Phosphorylated on Tyr residues after T-cell receptor triggering.
细胞定位	Membrane.

图片



Flow Cytometry - Anti-CD3 zeta (phospho Y83)
antibody [EP776(2)Y] (ab68236)

Flow Cytometry analysis of Jurkat (human acute T cell leukemia) treated (Red)/untreated (Green) with 1mM pervanadate for 4 hours with purified ab68236 at 1/250 dilution. The secondary antibody was Goat anti rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution. A Rabbit monoclonal IgG (Black) was used as the isotype control and cells without incubation with primary antibody and secondary antibody (Blue) were used as unlabeled control.



All lanes : Anti-CD3 zeta (phospho Y83)
antibody [EP776(2)Y] (ab68236) at 1/2000
dilution

Lane 1 : Untreated Jurkat cells whole cell
lysates

Lane 2 : Jurkat cells were treated with 50mM
Pervanadate for 5 minutes whole cell lysates

Lane 3 : Jurkat cells were treated with 50mM
Pervanadate for 5 minutes whole cell lysates.

Then the membrane was incubated with
Alkaline phosphatase.

Lysates/proteins at 10 µg per lane.

Secondary

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

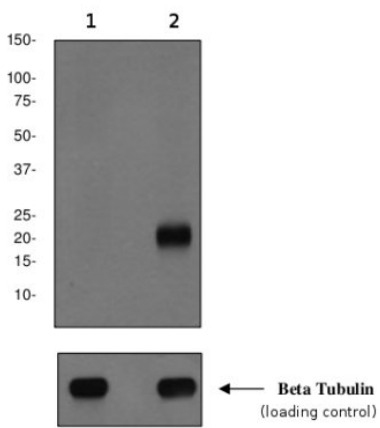
Predicted band size: 18 kDa

Observed band size: 18 kDa

Exposure time: 3 minutes

Blocking buffer 5% NFDM/TBST

Diluting buffer 5% NFDM/TBST



Western blot - Anti-CD3 zeta (phospho Y83)
antibody [EP776(2)Y] (ab68236)

All lanes : Anti-CD3 zeta (phospho Y83)
antibody [EP776(2)Y] (ab68236) at 1/10000
dilution

Lane 1 : Jurkat cell lysate, untreated.

Lane 2 : Jurkat cell lysate, treated with
pervanadate

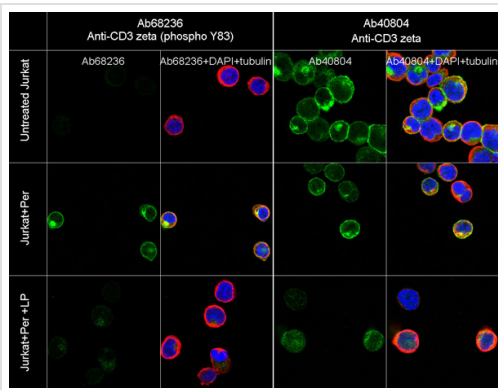
Lysates/proteins at 10 μ g per lane.

Secondary

All lanes : HRP-conjugated goat anti-rabbit
IgG at 1/2000 dilution

Predicted band size: 18 kDa

Observed band size: 18-22 kDa

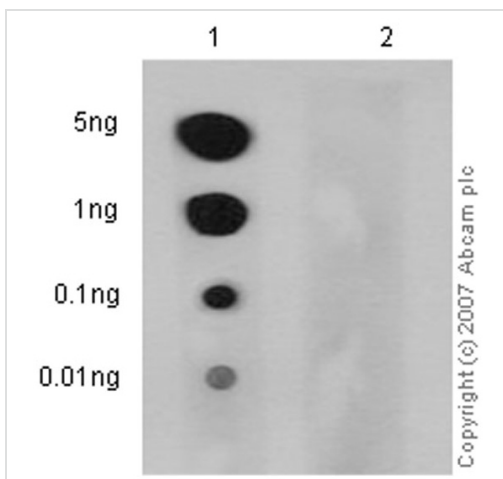


Immunocytochemistry/ Immunofluorescence - Anti-CD3 zeta (phospho Y83) antibody [EP776(2)Y] (ab68236)

Immunocytochemistry/Immunofluorescence analysis of Jurkat cells (untreated, Per treated and Per+LP treated) labelling CD3 zeta (phospho Y83) with ab68236 (left) and CD3 zeta with ab40804 (right) both at a dilution of 1/200. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. ab7291, a mouse anti-tubulin (1/1000) and ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

The image shows increased cytoplasmic staining after Pervanadate (1 mM, 30 min) treatment on Jurkat cells. The LP treatment decreased the cytoplasmic staining caused by Pervanadate.

ab40804 was used as a Pan control for ab68236. The results showed cytoplasmic staining on untreated, pervanadate (1 mM, 30 min) treated and Per+LP treated Jurkat cells.



Dot Blot - Anti-CD3 zeta (phospho Y83) antibody [EP776(2)Y] (ab68236)

Dot blot analysis of CD3 zeta (pY83) phosphopeptide (lane 1) and CD3 zeta non-phosphopeptide (lane 2) labelling CD3 zeta (phospho Y83) with ab68236 at a dilution of 1/1000. A peroxidase-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/2500).

Blocking and dilution buffer: 5% NFDN/TBST.

Exposure time: 3 minutes.

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