Product datasheet

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

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
Specificity: This antibody detects CD3 zeta phosphorylated on tyrosine 142.
Tested applications: Suitable for: WB, IP, ICC
Unsuitable for: Flow Cyt or IHC-P
Species reactivity: Reacts with: Human
Immunogen: A phospho specific peptide corresponding to residues surrounding tyrosine 142 of human CD3 zeta.
Positive control: Jurkat cell lysates
General notes: 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

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: pH: 7.40
Preservative: 0.05% Sodium azide
Constituents: 0.1% BSA, 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant
Purity: Tissue culture supernatant
Clonality: Monoclonal
Clone number: EP265(2)Y
Isotype: IgG
**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.

**Application notes**
Is unsuitable for Flow Cyt or IHC-P.

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**Images**

**All lanes**: Anti-CD3 zeta (phospho Y142) antibody [EP265(2)Y] (ab68235) at 1/1000 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: 19 kDa
Observed band size: 18 kDa

why is the actual band size different from the predicted?

Exposure time: 3 minutes

Blocking buffer 5% NFDM/TBST
Diluting buffer 5% NFDM/TBST

All lanes : Anti-CD3 zeta (phospho Y142) antibody [EP265(2)Y] (ab68235) at 1/2000 dilution

Lane 1 : Jurkat cell lysates, membrane un-treated
Lane 2 : Jurkat cell lysates, membrane treated with pervanadate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 19 kDa
Observed band size: 19 kDa

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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