abcam

Product datasheet

Anti-ZAP70 (phospho Y315) antibody ab60970

★★★★☆ 1 Abreviews 2 Images

Overview

Product name Anti-ZAP70 (phospho Y315) antibody

Description Rabbit polyclonal to ZAP70 (phospho Y315)

Host species Rabbit

Tested applications Suitable for: WB, IHC-P

Species reactivity Reacts with: Human

Predicted to work with: Mouse

Immunogen Synthetic peptide corresponding to Human ZAP70 (phospho Y315).

Database link: P43403

Positive control Lymph node tissue.

General notes

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.

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&As

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

Storage buffer pH: 7.40

Preservative: 0.02% Sodium azide

Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride

Without Mg2+ and Ca2+

Purity Immunogen affinity purified

Purification notesAffinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific

phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography

using non-phosphopeptide corresponding to the phosphorylation site.

Clonality Polyclonal

1

Isotype IgG

Applications

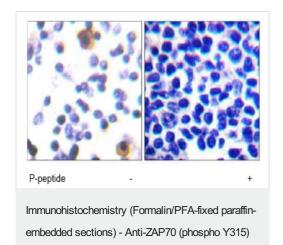
The Abpromise guarantee Our <u>Abpromise guarantee</u> covers the use of ab60970 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/500 - 1/1000. Predicted molecular weight: 69 kDa.
IHC-P	★★★★☆ (1)	1/50 - 1/100.

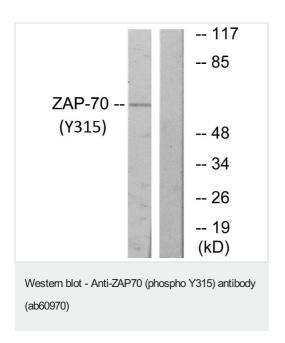
Target		
Function	Plays a role in T-cell development and lymphocyte activation. Essential for TCR-mediated IL-2 production. Isoform 1 induces TCR-mediated signal transduction, isoform 2 does not.	
Tissue specificity	Expressed in T- and natural killer cells.	
Involvement in disease	Defects in ZAP70 are the cause of selective T-cell defect (STD) [MIM:176947]. STD is an autosomal recessive form of severe combined immunodeficiency characterized by a selective absence of CD8-type T-cells.	
Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. SYK/ZAP-70 subfamily. Contains 1 protein kinase domain. Contains 2 SH2 domains.	
Domain	The SH2 domains bind to the phosphorylated tyrosine-based activation motif (TAM) of CD3Z and the non-canonical phosphorylated tyrosine-based activation motif (TAM) of RHOH.	
Post-translational modifications	Phosphorylated on tyrosine residues upon T-cell antigen receptor (TCR) stimulation. Tyr-319 phosphorylation is essential for full activity.	
Cellular localization	Cytoplasm. Cell membrane. After antigen stimulation, isoform 1 concentrates at the immunological synapse and isoform 2 remains cytoplasmic. Co-localizes together with RHOH in the immunological synapse. RHOH is required for its proper localization to the cell membrane and cytoskeleton fractions in the thymocytes.	

Images



antibody (ab60970)

ab60970 at 1/50 - 1/100 dilution staining ZAP70 in human lymph node by immunohistochemistry on paraffin-embedded tissue, in the absence or presence of the immunising phosphopeptide.



All lanes : Anti-ZAP70 (phospho Y315) antibody (ab60970) at 500 cells

Lane 1 : Jurkat (human T cell leukemia cell line from peripheral blood) treated with 40 nM Ca2+, whole cell lysate

Lane 2: Jurkat incubated with 40 nM Ca2+, whole cell lysate incubated with phospho-peptide

Predicted band size: 69 kDa

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
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- Extensive multi-media technical resources to help you
- · We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

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