Product datasheet

Anti-ZAK antibody ab65249

Overview

Product name  Anti-ZAK antibody
Description  Rabbit polyclonal to ZAK
Host species  Rabbit
Tested applications  Suitable for: ICC/IF, WB
Species reactivity  Reacts with: Human
Predicted to work with: Mouse
Immunogen  Synthetic peptide derived from C terminus of human ZAK
Positive control  HeLa cell extracts and HepG2 cells.
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
Clonality  Polyclonal
Isotype  IgG

Applications
The Abpromise guarantee

Our Abpromise guarantee covers the use of ab65249 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ICC/IF</td>
<td></td>
<td>1/500 - 1/1000.</td>
</tr>
<tr>
<td>WB</td>
<td></td>
<td>1/500 - 1/1000. Detects a band of approximately 91 kDa (predicted molecular weight: 91 kDa).</td>
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</tbody>
</table>

**Target**

**Function**

Stress-activated component of a protein kinase signal transduction cascade. Regulates the JNK and p38 pathways. Part of a signaling cascade that begins with the activation of the adrenergic receptor ADRA1B and leads to the activation of MAPK14. Pro-apoptotic. Role in regulation of S and G2 cell cycle checkpoint by direct phosphorylation of CHEK2. Isoform 1, but not isoform 2, causes cell shrinkage and disruption of actin stress fibers. Isoform 1 may have role in neoplastic cell transformation and cancer development. Isoform 1, but not isoform 2, phosphorylates histone H3 at ‘Ser-28’.

**Tissue specificity**

Ubiquitously expressed. Isoform 2 is the predominant form in all tissues examined, except for liver, in which isoform 1 is more highly expressed.

**Sequence similarities**

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.

Contains 1 protein kinase domain.

Contains 1 SAM (sterile alpha motif) domain.

**Cellular localization**

Cytoplasm. Nucleus. Translocates to the nucleus upon ultraviolet B irradiation.

**Images**

ab65249 at 1/500 dilution staining ZAK in HepG2 cells by Immunofluorescence, in the absence or presence of the immunising peptide.
Western blot - Anti-ZAK antibody (ab65249)

<table>
<thead>
<tr>
<th>Lane</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>HeLa cell extract</td>
</tr>
<tr>
<td>2</td>
<td>HeLa cell extract with immunising peptide at 5 µg</td>
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</tbody>
</table>

Lysates/proteins at 5 µg per lane.

**Predicted band size:** 91 kDa

**Observed band size:** 91 kDa

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

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- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- 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](https://www.abcam.com/abpromise) or contact our technical team.

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