Product datasheet

Anti-Phosphoserine antibody ab9332

Overview

Product name: Anti-Phosphoserine antibody
Description: Rabbit polyclonal to Phosphoserine
Host species: Rabbit
Specificity: Recognize proteins phosphorylated on serine residues. Does not cross-react with phosphotyrosine. Will detect 50 ng of phosvitin with immunoblotting or 0.5 ng of phosvitin with immunocaptured ELISA. Antibody slightly cross-reacts with phosphothreonine (about 20%) based on indirect ELISA data.

Tested applications: Suitable for: ELISA, IP, WB, IHC - Wholemount, ICC/IF
Species reactivity: Reacts with: Species independent
Immunogen: BSA and KLH-phosphoserine conjugates.
Positive control: Mouse brain extract for Western Blotting. Synthetic phosphopeptide or phosvitin for ELISA.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservative: 0.1% Sodium azide
Constituent: Tris buffered saline
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab9332 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>
</tr>
</thead>
<tbody>
<tr>
<td>ELISA</td>
<td>★★★★☆☆☆</td>
<td>Use a concentration of 0.5 μg/ml.</td>
</tr>
</tbody>
</table>
Relevance

Changes in the serine/threonine phosphorylation state of a protein in response to various external stimuli can have profound effects on cellular signal transduction, apoptosis and carcinogenesis. The reagents, including phosphorylated protein/peptides, antibodies against the phosphospecific amino acid, are important tools to explore the activation of serine, threonine or tyrosine containing proteins. An aberrant protein phosphorylation is a hallmark of human disease, and the enzymes, particularly protein kinases, which control protein phosphorylation are recognized as a major new drug target family.

Applications

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td>★★★</td>
<td>Use a concentration of 2 - 4 µg/ml. To block use 3%BSA with 0.1% gelatin (do not use milk). We recommend that the antibody solution should contain 0.5% BSA to prevent non-specific binding.</td>
</tr>
<tr>
<td>IHC - Wholemount</td>
<td></td>
<td>1/200.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td>★★★★</td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>

Target

Relevance

Images

Western blot - Anti-Phosphoserine antibody (ab9332)
This image is courtesy of an Abreview submitted by Karin Birkenkamp-Demtroeder

Images

All lanes: Anti-Phosphoserine antibody (ab9332) at 3 µg/ml (in PBS for 16 hours)

All lanes: Whole cell lysate of monkey COS7 cells

Lysates/proteins at 25 µg per lane.

Secondary

All lanes: An HRP-conjugated Pig anti-rabbit IgG polyclonal at 1/3000 dilution

Blocking Step: 10% Milk for 1 hour at room temperature
ab9332 staining Phosphoserine in Human osteosarcoma SAOS-2 cells by ICC/IF (Immunocytochemistry/Immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized in 0.25% Triton in PBS and blocked with 1% BSA for 1 hour at room temperature. Samples were incubated with primary antibody (1/500 in PBS + 1% BSA) for 1 hour. An Alexa Fluor®488-conjugated Goat anti-rabbit IgG polyclonal (1/250) was used as the secondary antibody.

Western blotting of a melanoma cell lysate with anti-phosphoserine antibodies

The detected band is 53 kD, and is a similar size to the p53 tumor suppressor factor.

The cells were treated with 0, 50, 200 or 400 J UV (lane A to D, respectively) and with 0.1uM of okadaic acid (lane E). Actin level was measured as an internal standard of cell protein.

Western blotting of a melanoma cell lysate with anti-phosphoserine antibodies. The detected band is 53 kD, and is a similar size to the p53 tumor suppressor factor. The cells were treated with 0, 50, 200 or 400 J UV (lane A to D, respectively) and with 0.1uM of okadaic acid (lane E). Actin level was measured as an internal standard of cell protein.

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