Product datasheet

Anti-PAK4 antibody ab62509

Overview

Product name: Anti-PAK4 antibody
Description: Rabbit polyclonal to PAK4
Host species: Rabbit
Specificity: This antibody reacts with PAK4
Tested applications: Suitable for: ICC/IF, WB, IHC-P
Species reactivity: Reacts with: Human
Immunogen: A 13 amino acid synthetic peptide from near the center of human PAK4
Positive control: SW480 cell lysate and human colon tissue

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C.
Storage buffer: Preservative: 0.02% Sodium azide
Constituent: PBS
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab62509 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>Use a concentration of 5 µg/ml.</td>
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<tr>
<td>WB</td>
<td>★★★★★</td>
<td>Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 64 kDa (predicted molecular weight: 64 kDa).</td>
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Function
Activates the JNK pathway. Plays a role in the reorganization of the actin cytoskeleton and in the formation of filopodia. Phosphorylates and inactivates the protein phosphatase SSH1, leading to increased inhibitory phosphorylation of the actin binding/depolymerizing factor cofilin. Decreased cofilin activity may lead to stabilization of actin filaments. Phosphorylates ARHGEF2.

Tissue specificity
Highest expression in prostate, testis and colon.

Sequence similarities
Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 CRIB domain. Contains 1 protein kinase domain.

Post-translational modifications
Autophosphorylated on serine residues when activated by CDC42/p21. Phosphorylated on tyrosine residues upon stimulation of FGFR2.

Images

**Western blot - Anti-PAK4 antibody (ab62509)**

Lane 1: Anti-PAK4 antibody (ab62509) at 1 µg/ml
Lane 2: Anti-PAK4 antibody (ab62509) at 2 µg/ml

All lanes: SW480 cell lysate

Lysates/proteins at 15 µg per lane.

Predicted band size: 64 kDa
Observed band size: 64 kDa

**Immunohistochemistry of PAK4 in paraffin embedded human colon tissue section with ab62509 antibody at 10 µg/ml.**

Notes
Use a concentration of 10 µg/ml.
ICC/IF image of ab62509 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab62509, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Immunofluorescence of PAK4 in Human Colon cells using ab62509 at 20 µg/ml.

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

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