Anti-PAK1 antibody ab131522

Overview

Product name: Anti-PAK1 antibody
Description: Rabbit polyclonal to PAK1
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P, ICC/IF
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Synthetic peptide conjugated to KLH, corresponding to a region around amino acids 210-214 (P-V-T-P-T) of Human PAK1 (NP_001122092.1).
Positive control: Methanol-fixed HeLa cells; 293 and 3T3 cell extracts; Human breast carcinoma tissue

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: 49% PBS, 50% Glycerol, 0.88% Sodium chloride
Note: PBS without Mg²⁺ and Ca²⁺
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab131522 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>
</table>
The activated kinase acts on a variety of targets. Likely to be the GTPase effector that links the Rho-related GTPases to the JNK MAP kinase pathway. Activated by CDC42 and RAC1. Involved in dissolution of stress fibers and reorganization of focal complexes. Involved in regulation of microtubule biogenesis through phosphorylation of TBCB. Activity is inhibited in cells undergoing apoptosis, potentially due to binding of CDC2L1 and CDC2L2.

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 when activated by CDC42/p21 and RAC1.

Cellular localization
Cytoplasm. Cell junction > focal adhesion. Recruited to focal adhesions upon activation.

### Images

**Western blot - Anti-PAK1 antibody (ab131522)**

**All lanes**: Anti-PAK1 antibody (ab131522) at 1/500 dilution

**Lane 1**: 293 cell extract

**Lane 2**: 3T3 cell extract

**Predicted band size**: 61 kDa

**Immunofluorescent analysis of methanol-fixed HeLa cells labelling PAK1 with ab131522 at 1/100 dilution.**
Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labelling PAK1 with ab131522 at 1/50 dilution. Right panel was preincubated with blocking peptide.

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

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