

Product datasheet

Anti-PAK1 (phospho S20) antibody [EP655Y] ab51244

Recombinant RabMAb

1 Image

Overview

Product name	Anti-PAK1 (phospho S20) antibody [EP655Y]
Description	Rabbit monoclonal [EP655Y] to PAK1 (phospho S20)
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, IHC-P or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human PAK1 (phospho S20). Numbering corresponds to mature PAK1 without Initiator methionine.
Positive control	HeLa cell lysate.
General notes	Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 0.31% Sodium citrate, 0.175% Sodium chloride, 0.0172% EDTA, 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP655Y
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab51244** 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
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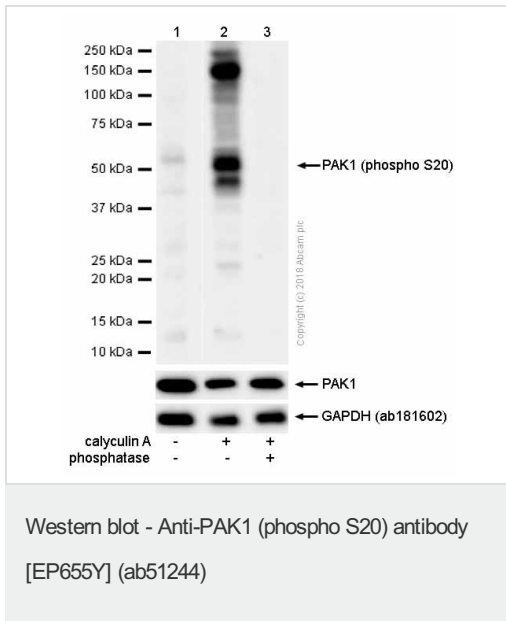
WB

Application notes	IP: 1/50. WB: 1/2000. Detects a band of approximately 61 kDa (predicted molecular weight: 61 kDa). Is unsuitable for Flow Cyt or IHC. Not yet tested in other applications. Optimal dilutions/concentrations should be determined by the end user.
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Target

Function	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



All lanes : Anti-PAK1 (phospho S20) antibody [EP655Y] (ab51244) at 1/1000 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) Whole cell lysates with 5% NFDN/TBST

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) treated with 100mM calyculin A for 30 minutes Whole cell lysates with 5% NFDN/TBST

Lane 3 : HeLa (Human cervix adenocarcinoma epithelial cell) treated with 100mM calyculin A for 30 minutes. Then the membrane was incubated with phosphatase. with 5% NFDN/TBST

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 61 kDa

Observed band size: 60 kDa

[why is the actual band size different from the predicted?](#)

Exposure time: 3 minutes

We are unable to define the extra bands

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

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