


Product datasheet

Anti-PAK4 (phospho S474) antibody ab125274

1 Image

Overview

Product name	Anti-PAK4 (phospho S474) antibody
Description	Rabbit polyclonal to PAK4 (phospho S474)
Host species	Rabbit
Specificity	ab125274 recognizes the phosphorylated peptide only. It recognises the PAK4 protein at a phosphorylation site of Serine 474 (~68kDa), or serine 602 of PAK5 (~90kDa) or Serine 560 of PAK6 (~80 kDa). ab125274 does not cross react to PAK1, PAK2 or PAK3.
Tested applications	Suitable for: WB, IP, ELISA
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Chicken, Cow, Dog 
Immunogen	A synthetic peptide surrounding the epitope RKSLV-with a phosphorylation at Serine 474 of Human PAK4. This sequence is also identical within rat, mouse, chicken, cow and dog species.
Positive control	HEK293 cell lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.05% Proclin Constituent: PBS Note: Contains antibody stabilizer
Purity	Immunogen affinity purified
Purification notes	ab125274 is purified by phosphospecific-epitope affinity purification.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab125274** in the following tested applications.

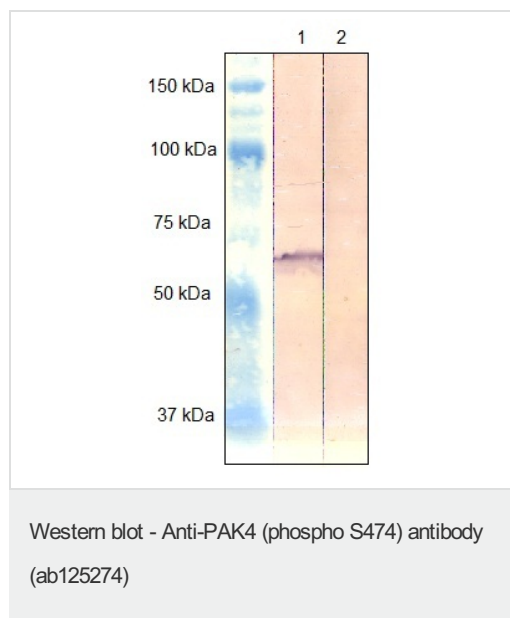
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.1 - 1 µg/ml. Detects a band of approximately 68 kDa (predicted molecular weight: 64 kDa).
IP		Use a concentration of 2 - 5 µg/ml.
ELISA		Use a concentration of 0.01 - 0.1 µg/ml.

Target

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



All lanes : Anti-PAK4 (phospho S474) antibody (ab125274) at 1/500 dilution

Lane 1 : HEK293 cell lysate

Lane 2 : HEK293 cell lysate with immunizing peptide

Predicted band size: 64 kDa

Observed band size: 68 kDa

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

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