

Product datasheet

Anti-PKC alpha antibody ab4124

[8 References](#) [2 Images](#)

Overview

Product name	Anti-PKC alpha antibody
Description	Rabbit polyclonal to PKC alpha
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Rat, Cow, Human
Immunogen	Synthetic peptide: SYVNPQFVHPILQSAV , corresponding to amino acids 657-672 of Rat PKC alpha. Run BLAST with Run BLAST with
Positive control	ICC/IF: MCF7 cells.

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	Preservative: 0.05% Sodium Azide
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab4124** 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		1/250. Predicted molecular weight: 80 kDa. (AP/HRP). With a more sensitive detection system, such as enhanced chemiluminescence or ELISA, the antibody may be diluted further.

Target

Function

This is a calcium-activated, phospholipid-dependent, serine- and threonine-specific enzyme. May play a role in cell motility by phosphorylating CSPG4. PKC is activated by diacylglycerol which in turn phosphorylates a range of cellular proteins. PKC also serves as the receptor for phorbol esters, a class of tumor promoters.

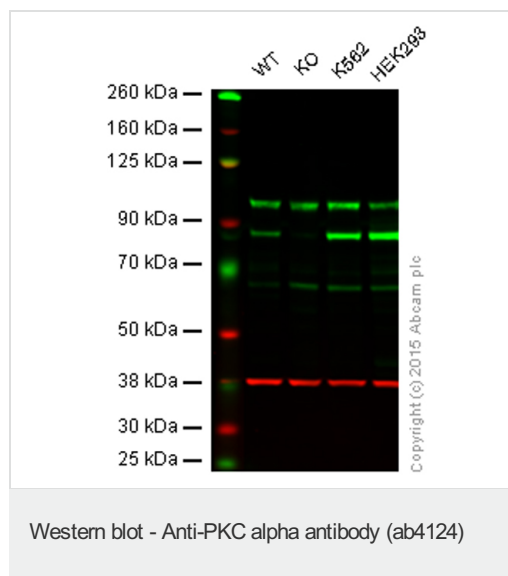
Sequence similarities

Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 C2 domain. Contains 2 phorbol-ester/DAG-type zinc fingers. Contains 1 protein kinase domain.

Cellular localization

Cytoplasm. Cell membrane. Nucleus.

Images



Lane 1: Wild-type HAP1 cell lysate (20 µg)

Lane 2: PKC alpha knockout HAP1 cell lysate (20 µg)

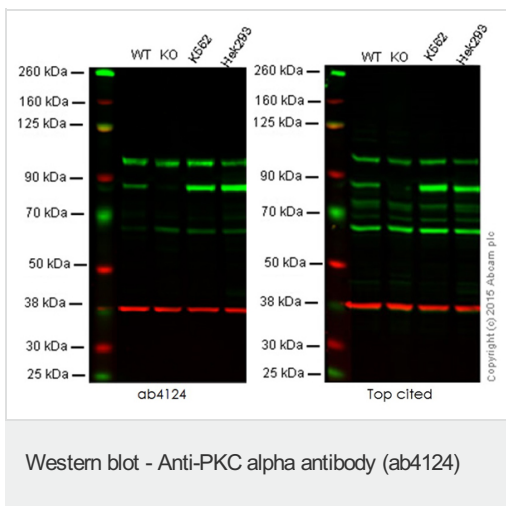
Lane 3: K562 cell lysate (20 µg)

Lane 4: HEK293 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green).

Green - ab4124 observed at 85 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

ab4124 was shown to recognize PKC alpha in wild-type HAP1 cells along with additional cross-reactive bands. No band was observed when PKC alpha knockout samples were examined. Wild-type and PKC alpha knockout samples were subjected to SDS-PAGE. ab4124 and [ab8245](#) (loading control to GAPDH) were diluted to 1/250 and 1/2000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



Lane 1: Wild-type HAP1 cell lysate (20 µg)

Lane 2: PKC alpha knockout HAP1 cell lysate (20 µg)

Lane 3: K562 cell lysate (20 µg)

Lane 4: HEK293 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green).

Green - ab4124 observed at 77 kDa. Red - loading control, ab8245, observed at 37 kDa.

This western blot image is a comparison between ab4124 and a competitor's top cited rabbit polyclonal antibody.

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