


## Product datasheet

# Anti-PI4 kinase beta/PI4KB antibody [EPR3758(2)] ab109418

Recombinant RabMAb

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### Overview

<b>Product name</b>	Anti-PI4 kinase beta/PI4KB antibody [EPR3758(2)]
<b>Description</b>	Rabbit monoclonal [EPR3758(2)] to PI4 kinase beta/PI4KB
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF, IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	HeLa, SH-SY5Y, BxPC-3 and Jurkat cell lysates
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

**Clone number**                      EPR3758(2)  
**Isotype**                                IgG

## Applications

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**The Abpromise guarantee**        Our **Abpromise guarantee** covers the use of ab109418 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		1/1000 - 1/10000. Detects a band of approximately 100 kDa (predicted molecular weight: 91 kDa).

**Application notes**                    Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

## Target

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**Function**                                Phosphorylates phosphatidylinositol (PI) in the first committed step in the production of the second messenger inositol-1,4,5,-trisphosphate (PIP). May regulate Golgi disintegration/reorganization during mitosis, possibly via its phosphorylation. Involved in Golgi-to-plasma membrane trafficking.

**Tissue specificity**                    Widely expressed with highest levels in heart, skeletal muscle, pancreas, testis and ovary. Weakly expressed in liver.

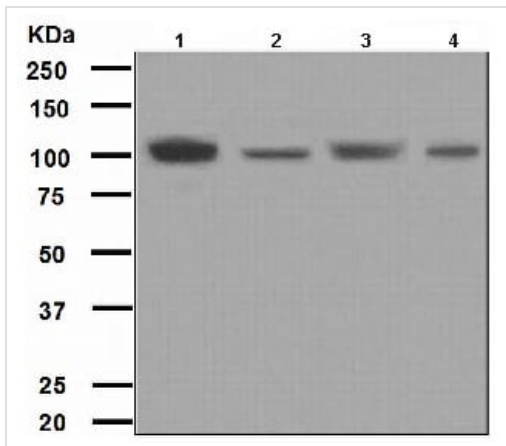
**Sequence similarities**                Belongs to the PI3/P14-kinase family. Type III P14K subfamily.  
Contains 1 PI3K/P14K domain.  
Contains 1 PIK helical domain.

**Cellular localization**                Endomembrane system. Mitochondrion outer membrane. Rough endoplasmic reticulum membrane. Golgi apparatus. Cytoplasm, perinuclear region. Found in the outer membrane of mitochondria and membranes of the rough endoplasmic reticulum. Recruited to the Golgi complex by the small GTPase ARF to stimulate the synthesis of phosphatidylinositol 4,5-bisphosphate (PIP2) on the Golgi complex.

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## Images

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Western blot - Anti-PI4 kinase beta/PI4KB antibody [EPR3758(2)] (ab109418)

**All lanes :** Anti-PI4 kinase beta/PI4KB antibody [EPR3758(2)] (ab109418) at 1/1000 dilution

**Lane 1 :** HeLa cell lysate

**Lane 2 :** SH-SY5Y cell lysate


**Lane 3 :** BxPC-3 cell lysate

**Lane 4 :** Jurkat cell lysate


Lysates/proteins at 10 µg per lane.

**Predicted band size:** 91 kDa


Why choose a recombinant antibody?




**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-PI4 kinase beta/PI4KB antibody [EPR3758(2)] (ab109418)

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

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