

## Product datasheet

# Anti-PI3 Kinase p110 beta antibody [Y384] ab32569

KO VALIDATED Recombinant RabMAB

★★★★★ [1 Abreviews](#) [17 References](#) [4 Images](#)

### Overview

<b>Product name</b>	Anti-PI3 Kinase p110 beta antibody [Y384]
<b>Description</b>	Rabbit monoclonal [Y384] to PI3 Kinase p110 beta
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab32569 recognises PI3-Kinases (PI3-Ks).
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP <b>Unsuitable for:</b> Flow Cyt (Intra), ICC or ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Guinea pig, Cow, Cat, Dog, Pig 
<b>Immunogen</b>	Synthetic peptide within Human PI3 Kinase p110 beta. The exact sequence is proprietary.
<b>Positive control</b>	WB: Jurkat whole cell lysate ( <a href="#">ab7899</a> ). IP: Jurkat
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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> <p>For more information <a href="#">see here</a>.</p> <p>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>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	Y384
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab32569 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

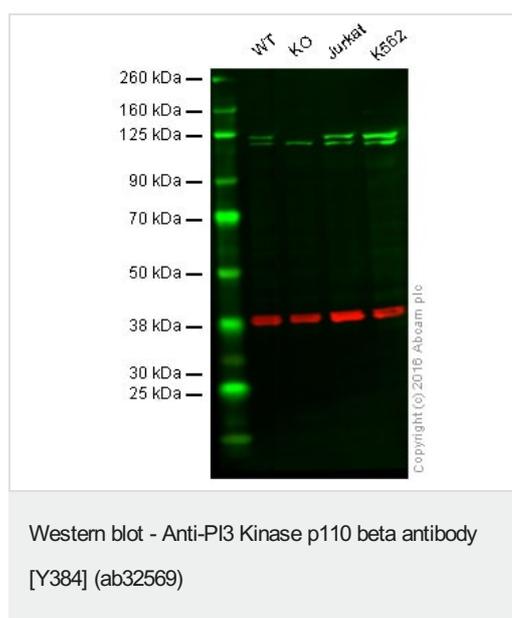
Application	Abreviews	Notes
<b>WB</b>	★★★★★ (1)	1/500. Detects a band of approximately 110 kDa (predicted molecular weight: 123 kDa).
<b>IP</b>		1/50.

**Application notes** Is unsuitable for Flow Cyt (Intra), ICC or ICC/IF.

## Target

<b>Function</b>	Phosphorylates PtdIns, PtdIns4P and PtdIns(4,5)P2 with a preference for PtdIns(4,5)P2.
<b>Tissue specificity</b>	Expressed ubiquitously.
<b>Pathway</b>	Phospholipid metabolism; phosphatidylinositol phosphate biosynthesis.
<b>Sequence similarities</b>	Belongs to the PI3/PI4-kinase family. Contains 1 PI3K/PI4K domain.

## Images



**Lane 1:** Wild-type HAP1 cell lysate (40 µg)

**Lane 2:** PI3 Kinase p110 beta knockout HAP1 cell lysate (40 µg)

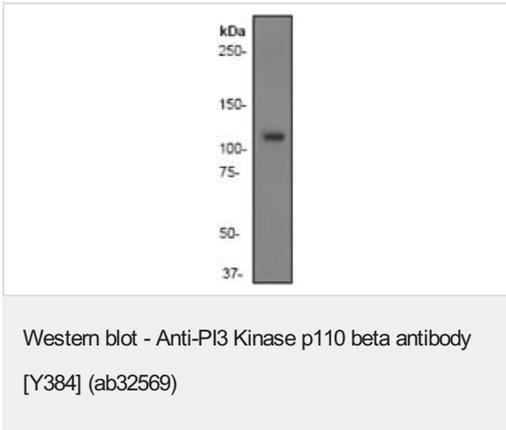
**Lane 3:** Jurkat cell lysate (40 µg)

**Lane 4:** K562 cell lysate (40 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - ab32569 observed at 125 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab32569 was shown to recognize PI3 Kinase p110 beta when PI3 Kinase p110 beta knockout samples were used, along with additional cross-reactive bands. Wild-type and PI3 Kinase p110 beta knockout samples were subjected to SDS-PAGE. Ab32569 and **ab8245** (loading control to GAPDH) were diluted at 1/500 and 1/10,000 dilution 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

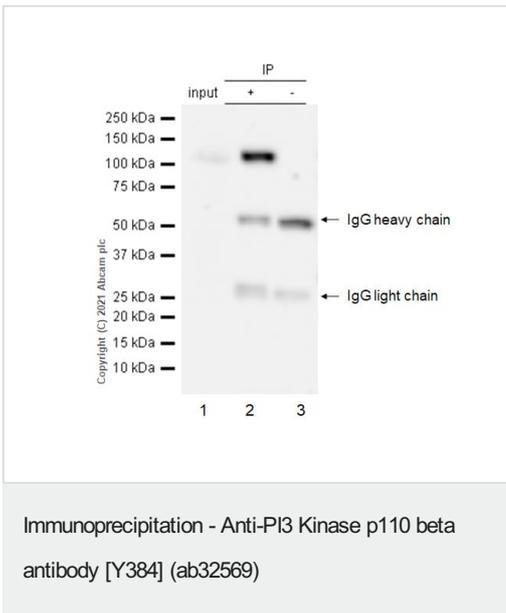
1/10,000 dilution for 1 hour at room temperature before imaging.



Anti-PI3 Kinase p110 beta antibody [Y384] (ab32569) at 1/500 dilution + Jurkat cell lysate

**Predicted band size:** 123 kDa

**Observed band size:** 110 kDa



PI3 Kinase p110 beta was immunoprecipitated from 0.35 mg Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate 10  $\mu$ g with ab32569 at 1/50 dilution (2 $\mu$ g). VeriBlot for IP Detection Reagent (HRP)([ab131366](#)) was used at 1/5000 dilution.

**Lane 1:** Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate 10  $\mu$ g

**Lane 2:** ab32569 IP in Jurkat whole cell lysate

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab32569 in Jurkat whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

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-PI3 Kinase p110 beta antibody [Y384] (ab32569)

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

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