

# ABfinity™ PI3K Recombinant Rabbit Oligoclonal Antibody

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Catalog Number 710400

Pub. No. MAN0007682 Rev. 1.00

<b>Clonality:</b> Oligoclonal	<b>Quantity:</b> 100 µg	<b>Volume:</b> 200 µL	<b>Concentration:</b> 0.5 mg/mL
<b>Host/Class:</b> Rabbit IgG	<b>Reactivity:</b> Human PI3K	<b>Predicted Reactivity:</b> Human	

## Product Description

Phosphatidylinositol 3-kinase (PI3K) is a signaling protein that phosphorylates the 3'-hydroxyl group of phosphatidylinositol. Signalling is initiated when upstream tyrosine kinase receptors or G protein coupled receptors are bound by their ligands. PI3K plays an essential role in a number of functions, including proliferation, differentiation, apoptosis, motility, and intracellular trafficking.

## Product Specifications

<b>Immunogen:</b>	Peptide corresponding to amino acids 369–382 of human PI3K.
<b>Apparent MW:</b>	~85 kDa
<b>Gene ID:</b>	5295
<b>Protein Accession No.:</b>	P27986
<b>Sequence Identity:</b>	Human
<b>Isotype:</b>	IgG <sub>1</sub>
<b>Lot:</b>	See product label

## Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	Jurkat, NIH3T3, HEK293, HeLa, MCF-7, and K562 cells	2–3 µg/mL
Immuocyto-chemistry	Human	HeLa cells	1 µg/mL
Flow cytometry	Human	HeLa cells	1 µg/mL for 1 × 10 <sup>-6</sup> cells

## Storage and handling

Store the antibody at 2°C to 8°C for up to 1 month, or -20°C for long storage. Avoid repeated freezing and thawing.

## Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

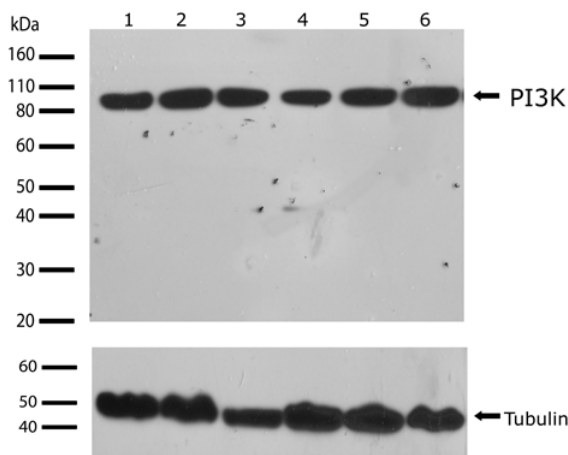


Figure 1 Western blot analysis of ABfinity™ PI3K Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710400).

Western blot analysis was performed on whole extracts of Jurkat, NIH3T3, HEK293, HeLa, MCF-7, and K562 lysate (lanes 1–5 respectively). Endogenous level of PI3K was detected at ~85 kDa using ABfinity™ PI3K Recombinant Rabbit Oligoclonal Antibody at a concentration of 2 µg/mL. Tubulin was used as a loading control and detected with an anti-tubulin antibody (Sigma Cat. no. T9026). The blot was developed using enhanced chemiluminescence (ECL) method.

## Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



**CAUTION!** Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing and gloves. SDSs are available at [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheet (SDS), visit <http://www.lifetechnologies.com/support>.

## Limited product warranty

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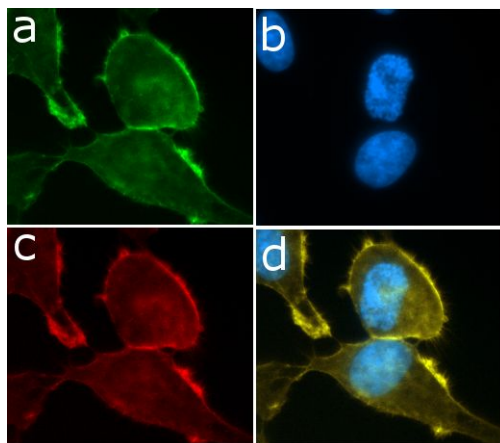


Figure 2 Immunocytochemistry analysis of ABfinity™ PI3K Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710400).

Immunocytochemistry analysis of HeLa cells stained with ABfinity™ PI3K Recombinant Rabbit Monoclonal Antibody a: Alexa Fluor® 488 goat anti-rabbit was used as secondary (green). b: DAPI stained HeLa nuclei (blue). c: Actin stained with Alexa Fluor® 594 phalloidin (red). d: Composite image of cells showing cytoplasmic localization of PI3K total.

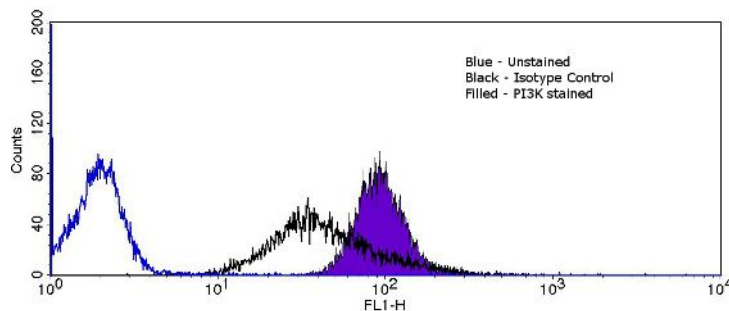


Figure 3 Flow cytometry analysis of HeLa cells labelled with ABfinity™ PI3K Recombinant Rabbit Oligoclonal Antibody (Cat no. 710400).

Fixed and permeabilized HeLa cells were labelled with ABfinity™ PI3K Recombinant Rabbit Oligoclonal Antibody, followed by Alexa Fluor® goat anti Rabbit IgG staining (right peak, filled). To confirm specificity, the cells were labeled with an isotype control and stained using Alexa Fluor® 488 goat anti-rabbit IgG (middle peak, black), unstained control cells (left peak, blue).

## Explanation of Symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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