

Product datasheet

Anti-PI 3 Kinase p85 beta antibody ab93778

2 Images

Overview

<b>Product name</b>	Anti-PI 3 Kinase p85 beta antibody
<b>Description</b>	Rabbit polyclonal to PI 3 Kinase p85 beta
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Chimpanzee, Rhesus monkey, Gorilla, Orangutan ▲
<b>Immunogen</b>	Synthetic peptide from a region within amino acids 75 - 125 of Human PI 3 Kinase p85 beta (NP_005018.1)
<b>Positive control</b>	HeLa whole cell lysate ( <a href="#">ab150035</a> )

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>	Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab93778** 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		
IP		

**Application notes**

IP: Use at 5-15µg/mg of lysate.

WB: 1/2000 - 1/10000. Predicted molecular weight: 82 kDa.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

**Target**

---

**Function**

Regulatory subunit of phosphoinositide-3-kinase (PI3K), a kinase that phosphorylates PtdIns(4,5)P<sub>2</sub> (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP<sub>3</sub>). PIP<sub>3</sub> plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Binds to activated (phosphorylated) protein-tyrosine kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Indirectly regulates autophagy (PubMed:23604317). Promotes nuclear translocation of XBP1 isoform 2 in a ER stress- and/or insulin-dependent manner during metabolic overloading in the liver and hence plays a role in glucose tolerance improvement.

**Involvement in disease**

Megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome 1

**Sequence similarities**

Belongs to the PI3K p85 subunit family.

Contains 1 Rho-GAP domain.

Contains 2 SH2 domains.

Contains 1 SH3 domain.

**Domain**

The SH2 2 domain is required for interaction with FBXL2 and PTPN13.

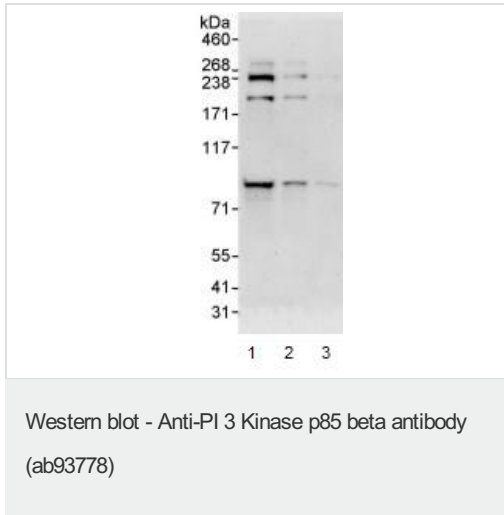
**Post-translational modifications**

Phosphorylated in response to signaling from activated receptor-type protein kinases (PubMed:19690332, PubMed:20068231). Dephosphorylated by PTPRJ (PubMed:18348712). Dephosphorylated at Tyr-655 by PTPN13. Phosphorylation of Tyr-655 impairs while its dephosphorylation promotes interaction with FBXL2 and SCF(FBXL2)-mediated polyubiquitination (PubMed:23604317).

Ubiquitinated. Polyubiquitination by the SCF(FBXL2) complex probably promotes proteasomal degradation of PIK3R2.

**Images**

---



**All lanes :** Anti-PI 3 Kinase p85 beta antibody (ab93778) at 0.04 µg/ml

**Lane 1 :** HeLa cell lysate at 50 µg

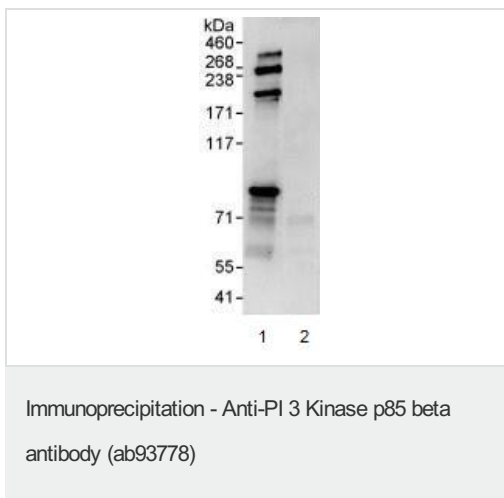
**Lane 2 :** HeLa cell lysate at 15 µg

**Lane 3 :** HeLa cell lysate at 5 µg

Developed using the ECL technique.

**Predicted band size:** 82 kDa

**Exposure time:** 30 seconds



**Immunoprecipitation :** 1 mg of HeLa cell lysate

immunoprecipitated with antibody at 10 µg/mg lysate; 20% of immunoprecipitate loaded in each lane

**All lanes :** PI 3 Kinase p85 beta antibody (ab93778) at 1 µg/ml

**Lane 1 :** Lysate immunoprecipitated with ab93778

**Lane 2 :** Lysate immunoprecipitated with a control IgG

**Predicted band size :** 82 kDa

Developed using the ECL technique

**Exposure time :** 10 seconds

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

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors