

## Product datasheet

# Recombinant Human PI 3 Kinase p85 alpha protein ab84769

[2 Images](#)

### Description

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**Product name** Recombinant Human PI 3 Kinase p85 alpha protein

**Purity** > 95 % Densitometry.  
Affinity purified.

**Expression system** Baculovirus infected Sf9 cells

**Accession** [P27986](#)

**Protein length** Full length protein

**Animal free** No

**Nature** Recombinant

**Species** Human

**Sequence**

```
MSAEGYQYRALYDYKKEREEDIDLHLGDILTVNKGSLVALG
FSDGQEARP EEIGWLNQYN
ETTGERGDFPGTYVEYIGRKKISPPTPKRPPRPLPVA
PGSSKTEADVEQQALTLPDLAE
QFAPPDIAPLLIKLVEAIEKKGLEC
STLYRTQSSSNLAELRQLLDCDTPSVDLEMIDVH
VLADAFKRYLLDLP
NPVIPAAVYSEMISLAPEVQSSEYIQLLKKLIRSPSIPHQY
WLT L QY
LLKHFFKLSQTSSKNLLNARVLSEIFSPMLFRFSAASSDNT
ENLIKVIEI LISTEWNE
RQPAPALPPKPPKPTTVANNGMNNMNSLQDAEWYWGDI
SR EEVNEKLRDTADGTFLVRDA
STKMHGDYTLTLRKGNNKLIKIFHRDG
KYGFSDPLTFSSVVELINHYRNESLAQYNPKL
DVKLLYPVSKYQQDQV
VKEDNIEAVGKKLHEYNTQFQEKSREYDRLYEEYTRTSQEI
QMK RTAI
EAFNETIKIFEEQCQTQERYSKEYIEKFKREGNEKEIQRIMH
NYDKLKS R ISEIID
SRRRLEEDLKKQAAEYREIDKRMNSIKPDLIQLRKTRDQYL
M WLTQKGV RQKKNLNEWLGN
ENTEDQYSLVEDDEDLPHHDEKTNVVGSSN
RNKAENLLRGKRDGTFLVRESSKQGCYACS
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VVVDGEVKHCVINKTATG  
YGFAEPYNLYSSLKELVLHYQHTSLVQHNDLNVTLAYPVY  
A QQRR

**Amino acids** 1 to 724  
**Tags** His tag N-Terminus

## Specifications

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Our **Abpromise guarantee** covers the use of **ab84769** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** Western blot  
SDS-PAGE

**Form** Liquid

## Preparation and Storage

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**Stability and Storage** Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.  
pH: 7.00  
Preservative: 1.02% Imidazole  
Constituents: 0.00174% PMSF, 0.82% Sodium phosphate, 0.0308% DTT, 25% Glycerol (glycerin, glycerine), 1.74% Sodium chloride

## General Info

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**Function** Binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Necessary for the insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues.

**Tissue specificity** Isoform 2 is expressed in skeletal muscle and brain, and at lower levels in kidney and cardiac muscle. Isoform 2 and isoform 4 are present in skeletal muscle (at protein level).

**Sequence similarities** Belongs to the PI3K p85 subunit family.  
Contains 1 Rho-GAP domain.  
Contains 2 SH2 domains.  
Contains 1 SH3 domain.

**Domain** The SH3 domain mediates the binding to CBLB, and to HIV-1 Nef.

**Post-translational modifications** Polyubiquitinated in T-cells by CBLB; which does not promote proteasomal degradation but impairs association with CD28 and CD3Z upon T-cell activation.  
Phosphorylated. Dephosphorylated by PTPRJ.

## Images

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Western blot - Recombinant Human PI 3 Kinase p85 alpha protein (ab84769)

**All lanes** : Anti-PI 3 Kinase p85 alpha antibody (**ab71925**) at 1 µg/ml

**Lane 1** : Recombinant Human PI 3 Kinase p85 alpha protein (ab84769) at 0.1 µg

**Lane 2** : Recombinant Human PI 3 Kinase p85 alpha protein (ab84769) at 0.01 µg

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Exposure time:** 10 seconds

SDS-PAGE showing ab84769 at approximately 86kDa.



Western blot - Recombinant Human PI 3 Kinase p85 alpha protein (ab84769)

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

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