

# Phospho-PI3KP85 $\alpha$ /P55 $\gamma$ /P85 $\beta$ -Y467/Y199/Y464 Rabbit pAb

Catalog No.: AP0854 **84 Publications**

## Basic Information

### Observed MW

60kDa(P55)/85kDa(P85)

### Calculated MW

42-54kDa/81-84kDa

### Category

Primary antibody

### Applications

WB,IF/ICC,ELISA

### Cross-Reactivity

Human, Mouse, Rat

## Background

Phosphatidylinositol 3-kinase phosphorylates the inositol ring of phosphatidylinositol at the 3-prime position. The enzyme comprises a 110 kD catalytic subunit and a regulatory subunit of either 85, 55, or 50 kD. This gene encodes the 85 kD regulatory subunit.

Phosphatidylinositol 3-kinase plays an important role in the metabolic actions of insulin, and a mutation in this gene has been associated with insulin resistance. Alternative splicing of this gene results in four transcript variants encoding different isoforms. [provided by RefSeq, Jun 2011]

## Recommended Dilutions

**WB** 1:500 - 1:2000

**IF/ICC** 1:100-1:400

**ELISA** Recommended starting concentration is 1  $\mu$ g/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

5295/5296/8503

### Swiss Prot

P27986/O00459/Q92569

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

PIK3R1/PIK3R2/PIK3R3; Phospho-PI3KP85 $\alpha$ /P55 $\gamma$ /P85 $\beta$ -Y467/Y199/Y464

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

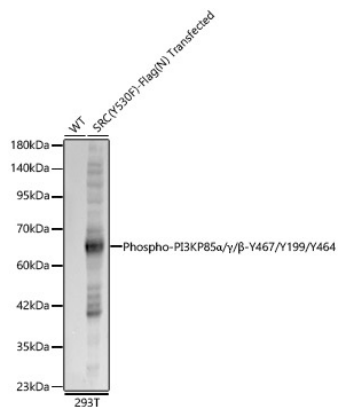
Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

## Validation Data



Western blot analysis of lysates from wild type (WT) and 293T cells were transfected with SRC(Y530F), using Phospho-PI3KP85α/γ/β-Y467/Y199/Y464 Rabbit pAb (AP0854) at 1:1000 dilution.

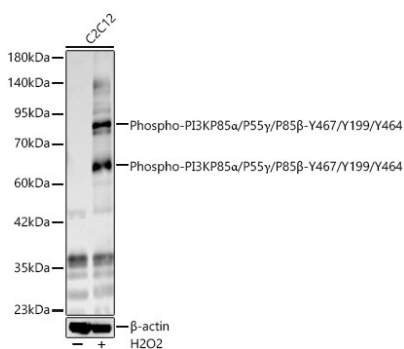
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 10s.



Western blot analysis lysates from C2C12, using Phospho-PI3KP85α/P55γ/P85β-Y467/Y199/Y464 Rabbit pAb (AP0854) at 1:1000 dilution. C2C12 cells were treated with Hydrogen Peroxide (2 nM) at 37°C for 15 minutes after serum-starvation overnight.

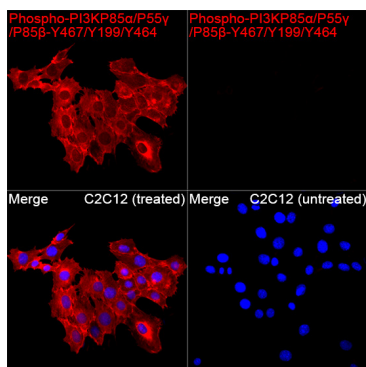
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 60s.



Immunofluorescence analysis of C2C12 cells (treated with H<sub>2</sub>O<sub>2</sub>) and C2C12 cells (untreated) using Phospho-PI3KP85α/P55γ/P85β-Y467/Y199/Y464 Rabbit pAb (AP0854) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.