

# Phospho-PI3 Kinase p55-Y199 Rabbit mAb

Catalog No.: AP1463 **Recombinant** **5 Publications**

## Basic Information

### Observed MW

62kDa

### Calculated MW

55kDa

### Category

Primary antibody

### Applications

WB,IF/ICC,ELISA

### Cross-Reactivity

Mouse

### CloneNo number

ARC65199

## 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.

## Recommended Dilutions

**WB** 1:2000 - 1:6000

**IF/ICC** 1:50 - 1:200

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

8503

### Swiss Prot

Q92569

### Immunogen

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

### Synonyms

PIK3R3; Phospho-PI3KP55γ-Y199

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

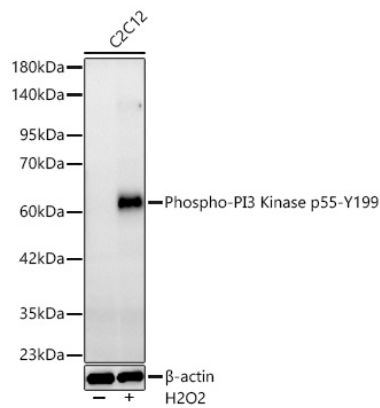
Affinity purification

### Storage

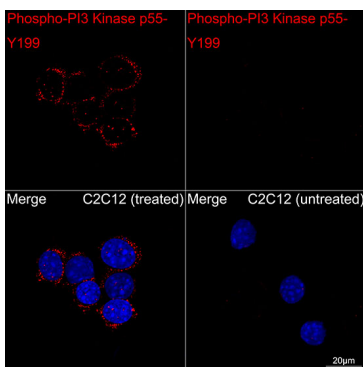
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% sodium azide,0.05% BSA,50% glycerol,pH7.3.

## Validation Data



Western blot analysis of lysates from C2C12 cells using Phospho-PI3 Kinase p55-Y199 Rabbit mAb (AP1463) at 1:5000 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: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 60s.



Confocal imaging of C2C12 cells (treated with H<sub>2</sub>O<sub>2</sub>) and C2C12 (untreated) cells using Phospho-PI3 Kinase p55-Y199 Rabbit mAb (AP1463, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.