Leader in Biomolecular Solutions for Life Science

www.abclonal.com

Phospho-PI3KP85α/P55γ/P85β-Y467/Y199/Y464 Rabbit mAb

Catalog No.: AP1622 Recombinant

Basic Information

Observed MW
60 kDa(P55γ)/85 kDa(P85α/P85β)

Calculated MW
43-85 kDa

Category
Primary antibody

Applications
WB,IF/ICC,ELISA

Cross-Reactivity
Human, Mouse

CloneNo number
ARC82264

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. Phosphatidylinositol 3-kinase (PI3K) phosphorylates phosphatidylinositol and similar compounds, which then serve as second messengers in growth signaling pathways. PI3K is composed of a catalytic and a regulatory subunit. The protein encoded by this gene represents a regulatory subunit of PI3K. The encoded protein contains two SH2 domains through which it binds activated protein tyrosine kinases to regulate their activity. Phosphatidylinositol 3-kinase (PI3K) is a lipid kinase that phosphorylates phosphatidylinositol and similar compounds, creating second messengers important in growth signaling pathways. PI3K functions as a heterodimer of a regulatory and a catalytic subunit. The protein encoded by this gene is a regulatory component of PI3K. Three transcript variants, one protein coding and the other two non-protein coding, have been found for this gene.

Recommended Dilutions

WB	1:8000 - 1:40000
IF/ICC	1:200 - 1:2000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000)□a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
5295/8503/5296

Swiss Prot
P27986/Q92569/O00459

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

Synonyms
PIK3R1/PIK3R2/PIK3R3; Phospho-PI3KP85α/P55γ/P85β-Y467/Y199/Y464

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

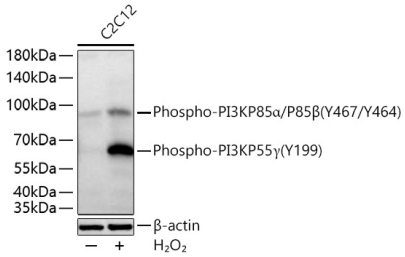
Contact

400-999-6126

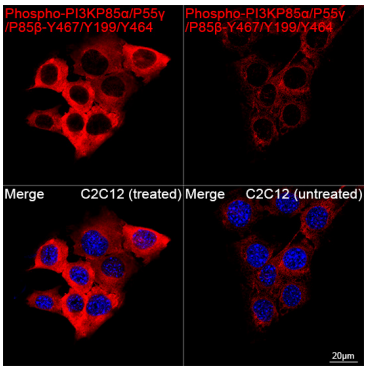
cn.market@abclonal.com.cn

www.abclonal.com.cn

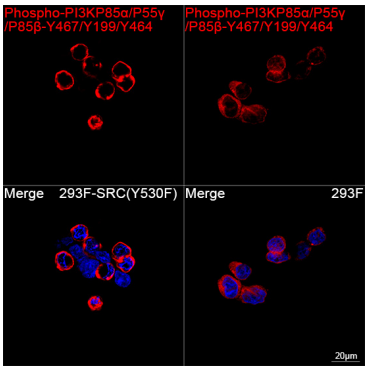
Validation Data



Western blot analysis of various lysates using Phospho-PI3KP85α/P55γ/P85β-Y467/Y199/Y464 Rabbit mAb (AP1622) at 1:20000 dilution incubated overnight at 4℃. C2C12 cells were treated with H_2O_2 (4 mM) at 37℃ for 15 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20 s.



Confocal imaging of C2C12 cells (treated with H_2O_2) and C2C12 cells (untreated) using Phospho-PI3KP85α/P55γ/P85β-Y467/Y199/Y464 Rabbit mAb (AP1622, dilution 1:1000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of 293F cells transfected with SRC(Y530F) using Phospho-PI3KP85α/P55γ/P85β-Y467/Y199/Y464 Rabbit mAb (AP1622, dilution 1:1000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.