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

Catalog No.: AP0854SP

85 Publications

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Basic Information

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

Calculated MW
42-54 kDa/81-84 kDa

Category
Polyclonal Antibodies

Applications
WB, IP, 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 1:10000 - 1:20000

IP
0.5 μg - 4 μg antibody for 200 μg - 400 μg extracts of whole cells

IF/ICC 1:200 - 1:2000

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

Immunogen Information

Gene ID
5295/5296/8503

Swiss-Prot
P27986/O00459/Q92569

Immunogen
This information is considered to be commercially sensitive.

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

Contact

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Product Information

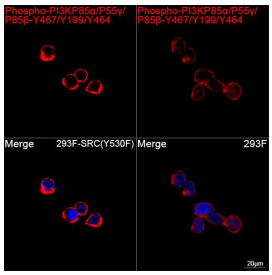
Source
Rabbit

Isotype
IgG

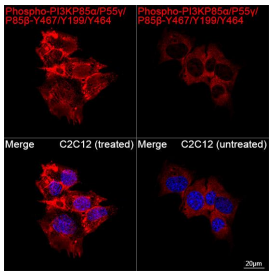
Purity
Affinity purification

Storage
Store at -20℃

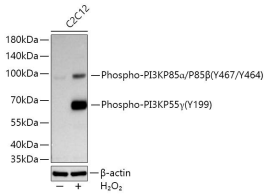
Validation Data



Confocal imaging of 293F cells transfected with SRC(Y530F) using Phospho-PI3KP85α/P55γ/P85β-Y467/Y199/Y464 Rabbit pAb (AP0854SP, dilution 1:200) 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 C2C12 cells (treated with H_2O_2) and C2C12 cells (untreated) using Phospho-PI3KP85α/P55γ/P85β-Y467/Y199/Y464 Rabbit pAb (AP0854SP, dilution 1:200) 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.



Western blot analysis of lysates from C2C12 cells using Phospho-PI3KP85α/P55γ/P85β-Y467/Y199/Y464 Rabbit pAb (AP0854SP) at 1:20000 dilution incubated overnight at 4℃. C2C12 cells were treated with H_2O_2 (4mM) at 37℃ for 15min.
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: 45 s.