Anti-Phospho-PI3K p85 (Y467) + PI3K p55 (Y199) Antibody [PSH01-39]

HA721673

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IF-Cell
Molecular Wt:	Predicted band size: 84 kDa/55 kDa
Clone number:	PSH01-39

Description: Phosphatidylinositol 3-kinase regulatory subunit alpha is an enzyme that in humans is encoded by the PIK3R1 gene. 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 three transcript variants encoding different isoforms.

Immunogen: Synthetic peptide within human PIK3R1 aa 451-500 / 724.

Positive control: NIH/3T3 treated with 1mM sodium orthovanadate for 30 minutes whole cell lysate.

Subcellular location: Cell-cell junction, cis-Golgi network, cytoplasm, cytosol, membrane, nucleus.

Database links: SwissProt: P27986 Human | P26450 Mouse

Recommended Dilutions:

WB	1:1,000
IF-Cell	1:100

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

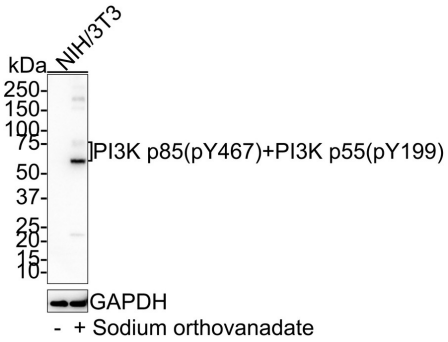

Fig1: Western blot analysis of Phospho-PI3K p85 (Y467) + PI3K p55 (Y199) on different lysates with Rabbit anti-Phospho-PI3K p85 (Y467) + PI3K p55 (Y199) antibody (HA721673) at 1/1,000 dilution.

Lane 1: NIH/3T3 whole cell lysate
Lane 2: NIH/3T3 treated with 1mM sodium orthovanadate for 30 minutes whole cell lysate

Lysates/proteins at 30 µg/Lane.

Predicted band size: 84 kDa
Observed band size: 55/85 kDa

Exposure time: 3 minutes 10 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721673) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/100,000 dilution was used for 1 hour at room temperature.

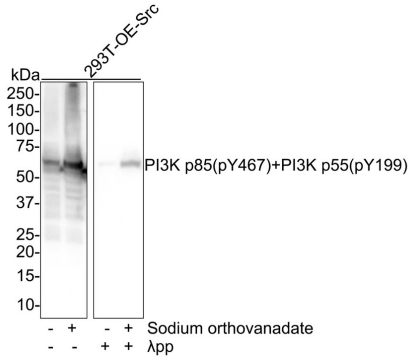

Fig2: Western blot analysis of Phospho-PI3K p85 (Y467) + PI3K p55 (Y199) on different lysates with Rabbit anti-Phospho-PI3K p85 (Y467) + PI3K p55 (Y199) antibody (HA721673) at 1/1,000 dilution.

Lane 1: 293T overexpress Src whole cell lysate
Lane 2: 293T overexpress Src treated with 1mM sodium orthovanadate for 30 minutes whole cell lysate
Lane 3: 293T overexpress Src treated with λpp for 1 hour whole cell lysate
Lane 4: 293T overexpress Src treated with 1mM sodium orthovanadate for 30 minutes, then treated with λpp for 1 hour whole cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 84 kDa
Observed band size: 55 kDa

Exposure time: 28 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with

Background References

1. Koch PA et al. The molecular mechanisms mediating class II PI 3-kinase function in cell physiology. FEBS J. 2021 Dec
2. Acosta-Martinez M et al. The PI3K/Akt Pathway in Meta-Inflammation. Int J Mol Sci. 2022 Dec