

Anti-PI 3 Kinase p85 alpha Antibody [JE04-11]

HA722522



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 84 kDa
Clone number:	JE04-11

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. The Pik3r1 gene locus encodes the 85 kD regulatory subunit, as well as 55 and 50 kD regulatory subunits. It used to be thought that alternative splicing of this gene resulted in three transcript variants encoding different isoforms. In fact, it has since been shown that the 55 and 50kD subunits have their own promoters within the gene locus Pik3r1. 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. Suppression specifically of the 85kD subunit in early murine embryoid body development results in a transient cell-cell adhesion deficiency, mediated by transient downregulation of the adhesion molecule integrin-beta1 (ITGB1).

Immunogen: Synthetic peptide within human PI3 Kinase p85 alpha aa 675-724 / 724.

Positive control: Jurkat cell lysate, MCF7 cell lysate, RAW264.7 cell lysate, NIH/3T3 cell lysate, C6 cell lysate, PC-12 cell lysate.

Subcellular location: Cytoplasm, membrane, nucleus.

Database links: SwissProt: P27986 Human | P26450 Mouse | Q63787 Rat

Recommended Dilutions:

WB 1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

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

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

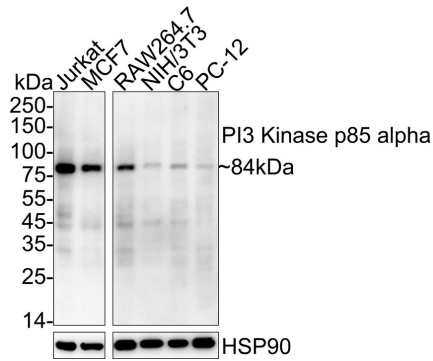
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of PI 3 Kinase p85 alpha on different lysates with Rabbit anti-PI 3 Kinase p85 alpha antibody (HA722522) at 1/1,000 dilution.



Lane 1: Jurkat cell lysate
 Lane 2: MCF7 cell lysate
 Lane 3: RAW264.7 cell lysate
 Lane 4: NIH/3T3 cell lysate
 Lane 5: C6 cell lysate
 Lane 6: PC-12 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 84 kDa

Observed band size: 84 kDa

Exposure time: 3 minutes; ECL: K1802;

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 (HA722522) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Chakraborty G et al. The Impact of PIK3R1 Mutations and Insulin-PI3K-Glycolytic Pathway Regulation in Prostate Cancer. Clin Cancer Res. 2022 Aug
2. Tsay A et al. The Role of PIK3R1 in Metabolic Function and Insulin Sensitivity. Int J Mol Sci. 2023 Aug

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