

Anti-PI 3 Kinase p85 alpha Antibody [A3-D0]

M1510-2



Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell
Molecular Wt:	Predicted band size: 84 kDa
Clone number:	A3-D0

Description: Phosphatidylinositol 3-kinase (PI 3-kinase) is composed of (p85) and (p110) subunits. p85 lacks PI 3-kinase activity and acts as an adapter, coupling p110 to activated protein tyrosine kinase. Two forms of p85 have been described (p85 α and p85 β), each possessing one SH3 and two SH2 domains. Various p110 isoforms have been identified. p110 α and p110 β interact with p85 α , and p110 α has also been shown to interact with p85 β in vitro. p110 δ expression is restricted to white blood cells. It has been shown to bind p85 α and γ , but it apparently does not phosphorylate these subunits. p110 δ seems to have the capacity to autophosphorylate. p110 γ does not interact with the p85 subunits. It has been shown to be activated by α and $\beta\gamma$ heterotrimeric G proteins.

Immunogen: Recombinant protein within Human PI3-kinase p85 subunit alpha aa 19-219 / 724.

Positive control: SW480 cell lysate, A431 cell lysate, 293T cell lysate, Jurkat cell lysate, A549 cell lysate.

Subcellular location: Cytosol, Membrane, Nucleus.

Database links: SwissProt: P27986 Human

Recommended Dilutions:

WB	1:1,000-1:2,000
IF-Cell	1:50-1:200

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4 $^{\circ}$ C after thawing. Aliquot store at -20 $^{\circ}$ C or -80 $^{\circ}$ C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

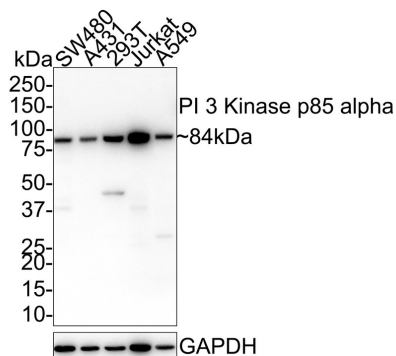


Fig1: Western blot analysis of PI 3 Kinase p85 alpha on different lysates with Mouse anti-PI 3 Kinase p85 alpha antibody (M1510-2) at 1/1,000 dilution.

Lane 1: SW480 cell lysate
 Lane 2: A431 cell lysate
 Lane 3: 293T cell lysate
 Lane 4: Jurkat cell lysate
 Lane 5: A549 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 84 kDa

Observed band size: 84 kDa

Exposure time: 1 minute 20 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 (M1510-2) at 1/1,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of PI 3 Kinase p85 alpha on different lysates with Mouse anti-PI 3 Kinase p85 alpha antibody (M1510-2) at 1/2,000 dilution.

Lane 1: A549-si NT cell lysate
 Lane 2: A549-si PI 3 Kinase p85 alpha cell lysate

Lysates/proteins at 20 µg/Lane.

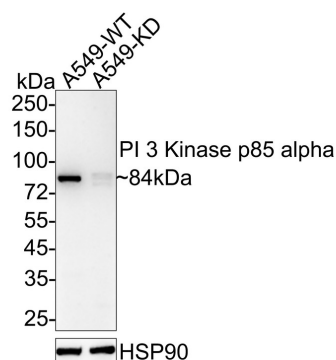
Predicted band size: 84 kDa

Observed band size: 84 kDa

Exposure time: 2 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 (M1510-2) at 1/2,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.



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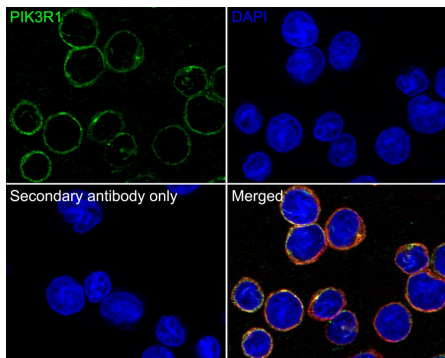
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Fig3: Immunocytochemistry analysis of U-937 cells labeling PI 3 Kinase p85 alpha with Mouse anti-PI 3 Kinase p85 alpha antibody (M1510-2) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Mouse anti-PI 3 Kinase p85 alpha antibody (M1510-2) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

beta Tubulin (ET1602-4, red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 594, HA1122) were used as the secondary antibody at 1/1,000 dilution.

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

Background References

1. Hu J et al. Filamin B regulates chondrocyte proliferation and differentiation through Cdk1 signaling. *PLoS One* 9:e89352 (2014).
2. Schmidt JW et al. Stat5 regulates the phosphatidylinositol 3-kinase/Akt1 pathway during mammary gland development and tumorigenesis. *Mol Cell Biol* 34:1363-77 (2014).

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