# Anti-PI 3 Kinase p85 alpha Antibody [A3-D0-R] HA601206

Product Type:	Recombinant Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell
Molecular Wt:	Predicted band size: 84 kDa
Clone number:	A3-D0-R
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 $\alpha$ and p85 $\beta$ ), each possessing one SH3 and two SH2 domains. Various p110 isoforms have been identified. p110 $\alpha$ and p110 $\beta$ interact with p85 $\alpha$ , and p110 $\alpha$ has also been shown to interact with p85 $\beta$ in vitro. p110 $\delta$ expression is restricted to white blood cells. It has been shown to bind p85 $\alpha$ and $\gamma$ , but it apparently does not phosphorylate these subunits. p110 $\delta$ seems to have the capacity to autophosphorylate. p110 $\gamma$ does not interact with the p85 subunits. It has been shown to be activated by $\alpha$ and $\beta\gamma$ heterotrimeric G proteins.
lmmunogen:	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, Raji cell lysate MCF7 cell lysate, A549 cell lysate, U-937.
Subcellular location:	Cytosol, Membrane, Nucleus.
Database links:	SwissProt: P27986 Human
Recommended Dilutions: WB IF-Cell	1:2,000-1:5,000 1:100
Storage Buffer:	PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Storage Instruction:	Shipped at 4 $^\circ\!\!C$ . Store at +4 $^\circ\!\!C$ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20 $^\circ\!\!C$ long term.
Purity:	Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

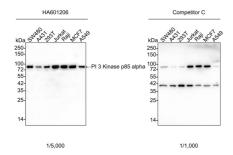
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

#### Images



**Fig1:** Western blot analysis of PI 3 Kinase p85 alpha on different lysates with Mouse anti-PI 3 Kinase p85 alpha antibody (HA601206) at 1/5,000 dilution and competitor's antibody 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: Raji cell lysate Lane 6: MCF7 cell lysate Lane 7: A549 cell lysate

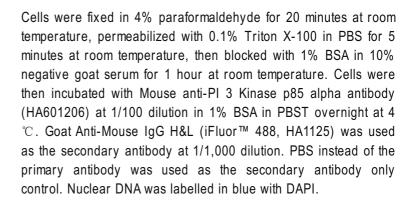
Lysates/proteins at 15 µg/Lane.

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

Exposure time: 1 minute 40 seconds; 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 (HA601206) at 1/5,000 dilution and competitor's antibody at 1/1,000 dilution were 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:** Immunocytochemistry analysis of U-937 cells labeling PI 3 Kinase p85 alpha with Mouse anti-PI 3 Kinase p85 alpha antibody (HA601206) at 1/100 dilution.



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

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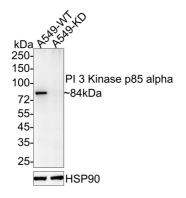
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**Fig3:** Western blot analysis of PI 3 Kinase p85 alpha on different lysates with Mouse anti-PI 3 Kinase p85 alpha antibody (HA601206) at 1/5,000 dilution.

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 (HA601206) at 1/5,000 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.

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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