

DATASHEET

PI3K p85 beta Mouse Monoclonal Antibody(C3367)

CAT. NO. AMA02979

KEY FEATURES

| | | | |
|---------------|---|---------------|--------------|
| Target | PI3K p85 beta | Source / Host | Mouse |
| Reactivity | Human, Mouse, Rat | Clonality | Monoclonal |
| Applications | WB | Conjugation | Unconjugated |
| Form / Buffer | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3. | Storage | at-20°C |

BACKGROUND

Regulatory subunit of phosphoinositide-3-kinase (PI3K), a kinase that phosphorylates PtdIns(4,5)P₂ (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP₃). PIP₃ plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Binds to activated (phosphorylated) protein-tyrosine kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Indirectly regulates autophagy, a kinase that phosphorylates PtdIns(4,5)P₂ (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP₃).

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

| | |
|----|----------------|
| WB | 1:500 - 1:1000 |
|----|----------------|

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

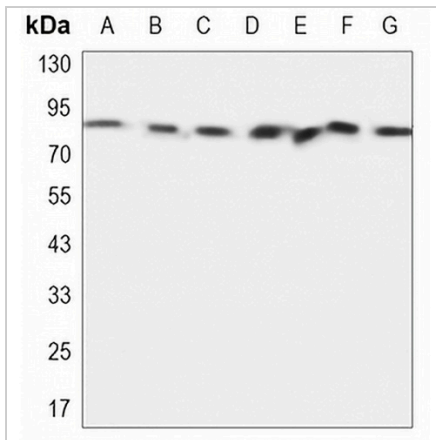
| | |
|-------------------|--|
| Description | Mouse monoclonal antibody to PI3K p85 beta |
| Specificity | Recognizes endogenous levels of PI3K p85 beta protein. |
| Antibody Type | Primary antibody |
| Immunogen | Purified recombinant human PI3 Kinase p85 beta protein fragments expressed in E.coli. |
| Purification | The antibody was purified by immunogen affinity chromatography. |
| Molecular Weight | Predicted: 82 kD; Observed: 85 kD |
| Form/Buffer | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3. |
| Alternative Names | Phosphatidylinositol 3-kinase regulatory subunit beta; PI3-kinase regulatory subunit beta; PI3K regulatory subunit beta; PtdIns-3-kinase regulatory subunit beta; Phosphatidylinositol 3-kinase 85 kDa regulatory subunit beta; PI3-kinase subunit p85-beta; PtdIns-3-kinase regulatory subunit p85-beta |
| Gene Symbol | PIK3R2 |
| Entrez Gene | 5296(Human); 18709(Mouse) |
| SwissProt | O00459(Human); O08908(Mouse); Q63788(Rat) |

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arex.bio or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA

Western blot analysis of PI3K p85 beta expression in C6 (A), K562 (B), MCF7 (C), U87MG (D), HCT116 (E), NIH3T3 (F), HeLa (G) whole cell lysates. (Predicted band size: 82 kD; Observed band size: 85 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.