# Product Name: PI3 Kinase p110 beta (11D3) Rabbit

Monoclonal Antibody Catalog #: AMRe16107



## **Summary**

**Production Name** PI3 Kinase p110 beta (11D3) Rabbit Monoclonal Antibody

**Description** Rabbit Monoclonal Antibody

Host Rabbit
Application WB,ELISA

**Reactivity** Human, Mouse, Rat

### **Performance**

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type
Buffer	preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term.
	Avoid freeze / thaw cycle.
Purification	Affinity purification

## **Immunogen**

Gene Name PIK3CB

**Alternative Names** p110Beta; PI3K; PI3K beta; PI3KCB; PIK3C1; Pik3cb;

 Gene ID
 5291.0

 SwissProt ID
 P42338.

## **Application**

**Dilution Ratio** WB 1:500-1:2000

Molecular Weight 123kDa

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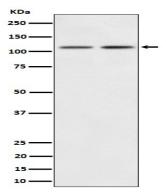


### **Background**

Phosphorylates PtdIns, PtdIns4P and PtdIns(4,5)P2 with a preference for PtdIns(4,5)P2. Phosphoinositide-3-kinase (PI3K) phosphorylates phosphatidylinositol derivatives at position 3 of the inositol ring to produce 3-phosphoinositides (PubMed: <a href="http://www.uniprot.org/citations/15135396" target=" blank">15135396</a>). Uses ATP and PtdIns(4,5)P2 (phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3) (PubMed: <a href="http://www.uniprot.org/citations/15135396" target=" blank">15135396</a>). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDPK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Involved in the activation of AKT1 upon stimulation by G- protein coupled receptors (GPCRs) ligands such as CXCL12, sphingosine 1-phosphate, and lysophosphatidic acid. May also act downstream receptor tyrosine kinases. Required in different signaling pathways for stable platelet adhesion and aggregation. Plays a role in platelet activation signaling triggered by GPCRs, alpha-IIb/beta-3 integrins (ITGA2B/ ITGB3) and ITAM (immunoreceptor tyrosine-based activation motif)-bearing receptors such as GP6. Regulates the strength of adhesion of ITGA2B/ ITGB3 activated receptors necessary for the cellular transmission of contractile forces. Required for platelet aggregation induced by F2 (thrombin) and thromboxane A2 (TXA2). Has a role in cell survival. May have a role in cell migration. Involved in the early stage of autophagosome formation. Modulates the intracellular level of PtdIns3P (phosphatidylinositol 3-phosphate) and activates PIK3C3 kinase activity. May act as a scaffold, independently of its lipid kinase activity to positively regulate autophagy. May have a role in insulin signaling as scaffolding protein in which the lipid kinase activity is not required. May have a kinase-independent function in regulating cell proliferation and in clathrinmediated endocytosis. Mediator of oncogenic signal in cell lines lacking PTEN. The lipid kinase activity is necessary for its role in oncogenic transformation. Required for the growth of ERBB2 and RAS driven tumors.

#### **Research Area**

#### **Image Data**



Western blot analysis of PI3 Kinase p110 beta expression in (1) 293 cell lysate; (2) Mouse Brain lysate.

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#### Note

For research use only.