

产品名称: PI 3 Kinase p110 delta (1X2) Rabbit Monoclonal Antibody
产品货号: AMRe16093



产品概述 (Summary)

产品名称 (Production Name)	PI 3 Kinase p110 delta (1X2) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB, ICC/IF
种属反应性 (Reactivity)	Human, Mouse, Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	PIK3CD APDS; GRB1; IMD14; p110dp85a; p85-ALPHA; Phosphoinositide 3 kinase B;
别名 (Alternative Names)	Phosphoinositide 3 kinase C; p37delta; PI3 kinase p110 subunit delta; PI3Kdelta; Pik3cd; PIK3R1; PK3CD; PtdIns 3 kinase p110;
基因 ID (Gene ID)	5293.0
蛋白 ID (SwissProt ID)	O00329.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:5000, ICC/IF 1:100-1:200
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蛋白分子量 (Molecular Weight) 119kDa

研究背景 (Background)

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. Mediates immune responses. Plays a role in B-cell development, proliferation, migration, and function. Required for B-cell receptor (BCR) signaling. Phosphoinositide-3-kinase (PI3K) phosphorylates phosphatidylinositol (PI) and its phosphorylated derivatives at position 3 of the inositol ring to produce 3-phosphoinositides (PubMed: [9235916](http://www.uniprot.org/citations/9235916)). Uses ATP and PtdIns(4,5)P2 (phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3) (PubMed: [15135396](http://www.uniprot.org/citations/15135396)). 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. Mediates immune responses. Plays a role in B-cell development, proliferation, migration, and function. Required for B-cell receptor (BCR) signaling. Mediates B-cell proliferation response to anti-IgM, anti-CD40 and IL4 stimulation. Promotes cytokine production in response to TLR4 and TLR9. Required for antibody class switch mediated by TLR9. Involved in the antigen presentation function of B-cells. Involved in B-cell chemotaxis in response to CXCL13 and sphingosine 1-phosphate (S1P). Required for proliferation, signaling and cytokine production of naive, effector and memory T-cells. Required for T-cell receptor (TCR) signaling. Mediates TCR signaling events at the immune synapse. Activation by TCR leads to antigen-dependent memory T-cell migration and retention to antigenic tissues. Together with PIK3CG participates in T-cell development. Contributes to T-helper cell expansion and differentiation. Required for T-cell migration mediated by homing receptors SELL/CD62L, CCR7 and S1PR1 and antigen dependent recruitment of T-cells. Together with PIK3CG is involved in natural killer (NK) cell development and migration towards the sites of inflammation. Participates in NK cell receptor activation. Plays a role in NK cell maturation and cytokine production. Together with PIK3CG is involved in neutrophil chemotaxis and extravasation. Together with PIK3CG participates in neutrophil respiratory burst. Plays important roles in mast-cell development and mast cell mediated allergic response. Involved in stem cell factor (SCF)-mediated proliferation, adhesion and migration. Required for allergen-IgE-induced degranulation and cytokine release. The lipid kinase activity is required for its biological function. Isoform 2 may be involved in stabilizing total RAS levels, resulting in increased ERK phosphorylation and increased PI3K activity.

研究领域 (Research Area)

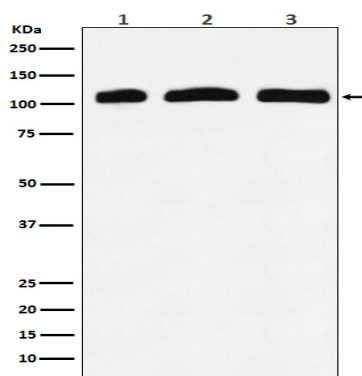
Inositol phosphate metabolism; ErbB_HER; Chemokine; Phosphatidylinositol signaling system; mTOR; Apoptosis_Inhibition; Apoptosis_Mitochondrial; Apoptosis_Overview; VEGF; Focal adhesion; Toll_Like; Jak_STAT; Natural killer cell mediated cytotoxicity; T_Cell_Receptor; B_Cell_Antigen; Fc epsilon RI; Fc gamma R-mediated phagocytosis; Leukocyte transendothelial migration; Neurotrophin; Regulates Actin and Cytoskeleton; Insulin_Receptor; Progesterone-mediated oocyte maturation; Type II diabetes mellitus; Aldosterone-regulated sodium reabsorption; Pathways in cancer; Colorectal cancer; Renal cell carcinoma; Pancreatic

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cancer;Endometrial cancer;Glioma;Prostate cancer;Melanoma;Chronic myeloid leukemia;Acute myeloid leukemia;Small cell lung cancer;Non-small cell lung cancer;

图片 (Image Data)



Western blot analysis of PI 3 Kinase p110 delta expression in (1) K562 cell lysate; (2) RAW 264. cell lysate; (3) Rat kidney lysate.

注意事项 (Note)

For research use only .