

Product Name: PI 3-kinase p85/p55 (phospho Tyr467/199) Rabbit Polyclonal Antibody Catalog #: APRab05244

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

Application WB,IHC,ICC/IF,ELISA

Reactivity Human, Mouse, Rat, Monkey, Other

ConjugationUnconjugatedModificationPhosphorylated

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000

Molecular Weight 55+85kDa

Antigen Information

Gene Name PIK3R1/PIK3R3

PIK3R1; GRB1; Phosphatidylinositol 3-kinase regulatory subunit alpha; PI3-kinase regulatory

subunit alpha; PI3K regulatory subunit alpha; PtdIns-3-kinase regulatory subunit alpha;

Alternative Names

Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha; Pl3-kinase subunit p85-

alpha; PtdIns-3-kinase regulatory subunit p85-alpha

Gene ID 5295.0

SwissProt ID P27986/Q92569

The antiserum was produced against synthesized peptide derived from human PI3-kinase Immunogen

p85-alpha/gamma around the phosphorylation site of Tyr467/199. AA range:436-485

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838



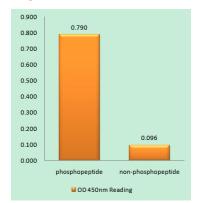
Background

Phosphatidylinositol 3-kinase phosphorylates the inositol ring of phosphatidylinositol at the 3-prime position. The enzyme comprises a 110 kD catalytic subunit and a regulatory subunit of either 85, 55, or 50 kD. This gene encodes the 85 kD regulatory subunit. Phosphatidylinositol 3-kinase plays an important role in the metabolic actions of insulin, and a mutation in this gene has been associated with insulin resistance. Alternative splicing of this gene results in four transcript variants encoding different isoforms. [provided by RefSeq, Jun 2011], disease: Defects in PIK3R1 are a cause of severe insulin resistance, domain: The SH3 domain mediates the binding to CBLB, and to HIV-1 Nef., function: Binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Necessary for the insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues.,PTM:Polyubiquitinated in T-cells by CBLB; which does not promote proteasomal degradation but impairs association with CD28 and CD3Z upon T-cell activation., similarity: Belongs to the PI3K p85 subunit family., similarity: Contains 1 Rho-GAP domain.,similarity:Contains 1 SH3 domain.,similarity:Contains 2 SH2 domains.,subunit:Heterodimer of a p110 (catalytic) and a p85 (regulatory) subunits. Interacts with phosphorylated TOM1L1. Interacts with phosphorylated LIME1 upon TCR and/or BCR activation. Interacts with SOCS7. Interacts with RUFY3 (By similarity). Interacts with phosphorylated LAT, LAX1 and TRAT1 upon TCR activation. Interacts with CBLB. Interacts with HIV-1 Nef to activate the Nef associated p21-activated kinase (PAK). This interaction depends on the C-terminus of both proteins and leads to increased production of HIV. Interacts with HCV NS5A. The SH2 domains interact with the YTHM motif of phosphorylated INSR in vitro. Also interacts with tyrosine-phosphorylated IGF1R in vitro. Interacts with CD28 and CD3Z upon T-cell activation. Interacts with IRS1 and phosphorylated IRS4, as well as with NISCH and HCST., tissue specificity: Isoform 2 is expressed in skeletal muscle and brain, and at lower levels in kidney and cardiac muscle. Isoform 2 and isoform 4 are present in skeletal muscle (at protein level).,

Research Area

Regulates Angiogenesis; Regulation_Microtubule; Regulation of Actin Dynamics; SAPK_JNK; Stem cell pathway; Insulin Receptor; ErbB/HER; AMPK; mTOR; B Cell Receptor; Adherens_Junction

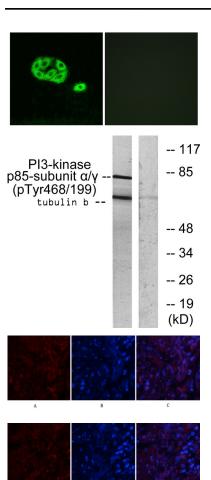
Image Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PI3-kinase p85-alpha/gamma (Phospho-Tyr467/199) Antibody

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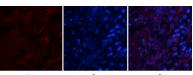




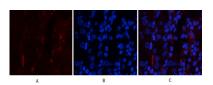
Immunofluorescence analysis of NIH/3T3 cells, using PI3-kinase p85-alpha/gamma (Phospho-Tyr467/199) Antibody. The picture on the right is blocked with the phospho peptide.

Western blot analysis of lysates from COS7 cells treated with H2O2 100uM 30 ', using PI3-kinase p85-alpha/gamma (Phospho-Tyr467/199) Antibody. The lane on the right is blocked with the phospho peptide.

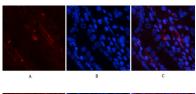
Immunofluorescence analysis of human-lung tissue. 1,PI 3-kinase p85/p55 (phospho Tyr467/199) Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



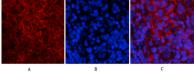
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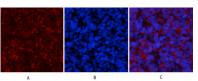
Immunofluorescence analysis of human-stomach tissue. 1,PI 3-kinase p85/p55 (phospho Tyr467/199) Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



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Immunofluorescence analysis of rat-spleen tissue. 1,PI 3-kinase p85/p55 (phospho Tyr467/199) Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight) . 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of



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