



PI 3-kinase p85 α Polyclonal Antibody

E20-53415

Catalog Number:E20-53415

Product name:PI 3-kinase p85 α Polyclonal Antibody

Amount:100ul

Applications:WB,IHC-p

Reactivity:Human

Gene Name:PIK3R1

Protein Name:Phosphatidylinositol 3-kinase regulatory subunit alpha

Human Gene Id:5295

Human Swiss Prot No:P27986

Mouse Swiss Prot No:P26450

Immunogen:Recombinant Protein of PI 3-kinase p85 α

Specificity:The antibody detects endogenous PI 3-kinase p85 α protein.

Formulation:PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

Source:Rabbit

Dilution:WB: 1:1000-2000 IHC: 1:200-500

Purification:The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Storage Stability:-20°C/1 year

Other Names:PIK3R1; GRB1; Phosphatidylinositol 3-kinase regulatory subunit alpha; PI3-kinase regulatory subunit alpha; PI3K regulatory subunit alpha; PtdIns-3-kinase regulatory subunit alpha; Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha; PI3-kinase subunit p85-alpha; PtdIns-3-kinase regulatory subunit p85-alpha

Observed Band(KD):85

Background:phosphoinositide-3-kinase regulatory subunit 1(PIK3R1) Homo sapiens
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

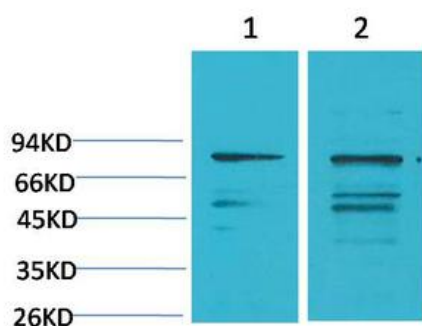
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50 kD. This gene encodes the 85 kD regulatory subunit. Phosphatidylinositol 3-kinase plays an important role in the metabolic actions of insulin, and a mutation in this gene has been associated with insulin resistance. Alternative splicing of this gene results in four transcript variants encoding different isoforms. [provided by RefSeq, Jun 2011].

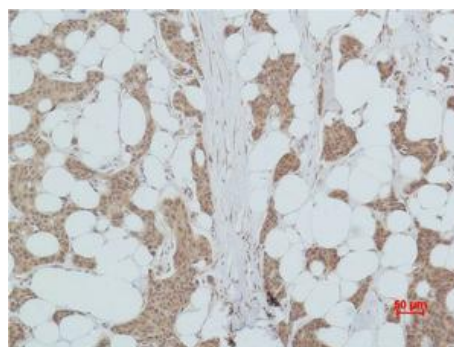
Function:disease:Defects in PIK3R1 are a cause of severe insulin resistance.,domain:The SH3 domain mediates the binding to CBLB, and to HIV-1 Nef.,function:Binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic 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.

Subcellular Location:nucleus,cytoplasm,cis-Golgi network,cytosol,plasma membrane,cell-cell junction, phosphatidylinositol 3-kinase complex,phosphatidylinositol 3-kinase complex, class IA, membrane, perinuclear endoplasmic reticulum membrane.

Expression:Brain,Epithelium,Lung,Placenta,Skeletal muscle.



Western blot analysis of 1) HepG2, 2) 293T using PI 3-kinase p85 α Polyclonal Antibody. Secondary antibody was diluted at 1:20000.



Immunohistochemical analysis of paraffin-embedded human Breast carcinoma using PI 3-kinase p85 α Polyclonal Antibody.