

PI 3-kinase p85β Polyclonal Antibody

Catalog No: YT3715

Reactivity: Human; Mouse; Rat

Applications: WB;ELISA

Target: PI3 Kinase p85 β

Fields: >>EGFR tyrosine kinase inhibitor resistance;>>Endocrine

resistance;>>Platinum drug resistance;>>ErbB signaling pathway;>>Ras

signaling pathway;>>Rap1 signaling pathway;>>cAMP signaling

pathway;>>Chemokine signaling pathway;>>HIF-1 signaling pathway;>>FoxO signaling pathway;>>Phosphatidylinositol signaling system;>>Sphingolipid signaling pathway;>>Phospholipase D signaling pathway;>>Autophagy - animal;>>mTOR signaling pathway;>>Pl3K-Akt signaling pathway;>>AMPK signaling pathway;>>Apoptosis;>>Longevity regulating pathway;>>Longevity

regulating pathway - multiple species;>>Cellular senescence;>>Axon guidance;>>VEGF signaling pathway;>>Osteoclast differentiation;>>Focal adhesion;>>Signaling pathways regulating pluripotency of stem cells;>>Platelet activation;>>Neutrophil extracellular trap formation;>>Toll-like receptor signaling pathway;>>C-type lectin receptor signaling pathway;>>JAK-STAT signaling pathway;>>Natural killer cell mediated cytotoxicity;>>T cell receptor signaling

pathway;>

O08908

Gene Name: PIK3R2

Protein Name: Phosphatidylinositol 3-kinase regulatory subunit beta

Human Gene Id: 5296

Human Swiss Prot 000459

No:

Mouse Gene Id: 18709

Mouse Swiss Prot

No:

Rat Swiss Prot No: Q63788

Immunogen: The antiserum was produced against synthesized peptide derived from human

PI 3-kinase p85beta. AA range:409-458



Specificity: PI 3-kinase p85β Polyclonal Antibody detects endogenous levels of PI 3-kinase

p85β protein.

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 85kD

Cell Pathway: Regulates Angiogenesis; Regulation_Microtubule; Regulation of Actin

Dynamics; SAPK JNK; Stem cell pathway; Insulin Receptor; ErbB/HER; AMPK;

mTOR; B Cell Receptor; Adherens_Junction

Background: Phosphatidylinositol 3-kinase (PI3K) is a lipid kinase that phosphorylates

phosphatidylinositol and similar compounds, creating second messengers important in growth signaling pathways. PI3K functions as a heterodimer of a regulatory and a catalytic subunit. The protein encoded by this gene is a regulatory component of PI3K. Two transcript variants, one protein coding and the other non-protein coding, have been found for this gene. [provided by RefSeq,

Dec 2012],

Function: function: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.,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.,

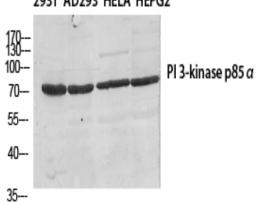
Subcellular Location:

nucleus, cytosol, phosphatidylinositol 3-kinase complex,

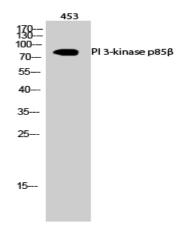
Expression : Brain, Epithelium, Kidney, Placenta,

Products Images

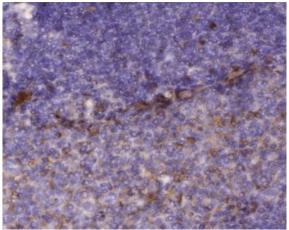
293T AD293 HELA HEPG2



Western Blot analysis of various cells using PI 3-kinase p85 β Polyclonal Antibody diluted at 1:500



Western Blot analysis of 453 cells using PI 3-kinase p85 β Polyclonal Antibody diluted at 1:500



Immunohistochemical analysis of paraffin-embedded human tonsil Antibody was diluted at 1:200(4° overnight).