Best Tools for immunology Research

PI 3-kinase p101 Polyclonal Antibody

Catalog No :	YT3708
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	PI 3-kinase p101
Fields :	>>cGMP-PKG signaling pathway;>>Chemokine signaling pathway;>>Phospholipase D signaling pathway;>>PI3K-Akt signaling pathway;>>Adrenergic signaling in cardiomyocytes;>>Apelin signaling pathway;>>Platelet activation;>>Cholinergic synapse;>>Oxytocin signaling pathway;>>Toxoplasmosis;>>Kaposi sarcoma-associated herpesvirus infection
Gene Name :	PIK3R5
Protein Name :	Phosphoinositide 3-kinase regulatory subunit 5
Human Gene Id :	23533
Human Swiss Prot No :	Q8WYR1
Mouse Gene Id :	320207
Mouse Swiss Prot No :	Q5SW28
Immunogen :	The antiserum was produced against synthesized peptide derived from human PIK3R5. AA range:695-744
Specificity :	PI 3-kinase p101 Polyclonal Antibody detects endogenous levels of PI 3-kinase p101 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. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200

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 : 100kD

Cell Pathway : ErbB_HER;Chemokine;Phosphatidylinositol signaling system;mTOR;Apoptosis_Inhibition;Apoptosis_Mitochondrial;Apoptosis_Overview;VEGF;Focal adhesion;Toll_Like;Jak_STAT;Natural killer cell mediated cytoto

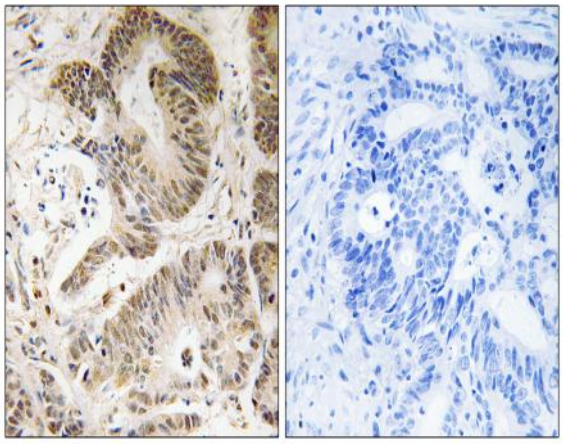
Background : Phosphatidylinositol 3-kinases (PI3Ks) phosphorylate the inositol ring of phosphatidylinositol at the 3-prime position, and play important roles in cell growth, proliferation, differentiation, motility, survival and intracellular trafficking. The PI3Ks are divided into three classes: I, II and III, and only the class I PI3Ks are involved in oncogenesis. This gene encodes the 101 kD regulatory subunit of the class I PI3K gamma complex, which is a dimeric enzyme, consisting of a 110 kD catalytic subunit gamma and a regulatory subunit of either 55, 87 or 101 kD. This protein recruits the catalytic subunit from the cytosol to the plasma membrane through high-affinity interaction with G-beta-gamma proteins. Multiple alternatively spliced transcript variants encoding two distinct isoforms have been found. [provided by RefSeq, Oct 2011],

Function : domain:The heterodimerization region allows the binding to the catalytic subunit.,enzyme regulation:Greatly activated by G gamma proteins.,function:Regulatory subunit of the PI3K gamma complex.,subunit:Heterodimer of a catalytic subunit (PIK3CG/p120) and a regulatory (PIK3R5a/p101) subunit. Interacts with G beta gamma proteins.,tissue specificity:Highly expressed in leukocytes, followed by spleen, lymph node, thymus ans bone marrow.,

Subcellular Location : Nucleus . Cytoplasm . Cell membrane ; Peripheral membrane protein . Predominantly localized in the nucleus in absence of PIK3CG/p120. Colocalizes with PIK3CG/p120 in the cytoplasm. Translocated to the plasma membrane in a beta-gamma G protein-dependent manner. .

Expression : Ubiquitously expressed with high expression in fetal brain compared to adult brain. Abundant expression is observed in cerebellum, cerebral cortex, cerebral meninges, and vermis cerebelli.

Products Images



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using PIK3R5 Antibody. The picture on the right is blocked with the synthesized peptide.