



PI 3-kinase p101 Polyclonal Antibody

Catalog No	YP-Ab-14912
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	PIK3R5
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	5-bisphosphate 3-kinase regulatory subunit;F7338I15Rik;FOAP 2;FOAP2; OTTHUMP135339;p11;P11 PI3K;p11-PI3K;Phosphatidylinositol 4;5 bisphosphate 3 kinase regulatory subunit;Phosphoinositide 3 kinase;regulatory subunit 5;regulatory subunit;polypeptide p11;Phosphoinositide 3-kinase regulatory subunit 5;PI3 kinase p11 subunit;PI3 kinase regulatory subunit 5;PI3-kinase p11 subunit;PI3-kinase regulatory subunit 5;PI3R5_HUMAN;PIK3 R5; PIK3R5;Protein FOAP 2;Protein FOAP-2;PtdIns 3 kinase p11;PtdIns 3 kinase regulatory subunit;PtdIns-3-kinase p11;PtdIns-3-kinase regulatory subunit;PI 3-kinase p101;PI3-kinase p101 subunit;PtdIns-
Observed Band	100kD
Calculated Molecular Weight	100kD
Cell Pathway	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. .
Tissue Specificity	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.



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 and bone marrow.,

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],

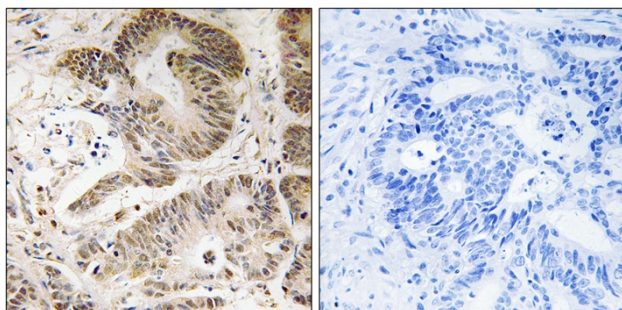
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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.