

Immunotag™ PI 3-kinase p101 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT3708
Product Description	Immunotag™ PI 3-kinase p101 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PI 3-kinase p101
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse
Host Species	Rabbit
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.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	PIK3R5
Accession No.	Q8WYR1 Q5SW28
Alternate Names	PIK3R5; Phosphoinositide 3-kinase regulatory subunit 5; PI3-kinase regulatory subunit 5; PI3-kinase p101 subunit; Phosphatidylinositol 4; 5-bisphosphate 3-kinase regulatory subunit; PtdIns-3-kinase regulatory subunit; Protein FOAP-2; PtdIns-

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Description	phosphoinositide-3-kinase regulatory subunit 5(PIK3R5) Homo sapiens 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],
Cell Pathway/ Category	ErbB_HER,Chemokine,Phosphatidylinositol signaling system,mTOR,Apoptosis_Inhibition,Apoptosis_Mitochondrial,Apoptosis_Overview,VEGF,Focal adhesion,Toll_Like,Jak_STAT,Natural killer cell mediated cytotoxicity,T_Cell_Receptor,B_Cell_Antigen,Fc epsilon RI,Fc gamma R-mediated phagocytosis,Leukocyte transendothelial migration,Neurotrophin,Regulates Actin and Cytoskeleton,Insulin_Receptor,Progesterone-mediated oocyte maturation,Type II diabetes mellitus,Aldosterone-regulated sodium reabsorption,Pathways in cancer,Colorectal cancer,Renal cell carcinoma,Pancreatic cancer,Endometrial cancer,Glioma,Prostate cancer,Melanoma,Chronic myeloid leukemia,Acute myeloid leukemia,Small cell lung cancer,Non-small cell lung cancer,
Protein Expression	Blood,Peripheral blood leukocyte,Spleen,
Subcellular Localization	nucleus,cytoplasm,cytosol,plasma membrane,phosphatidylinositol 3-kinase complex,phosphatidylinositol 3-kinase complex, class IB,membrane,
Protein 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.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.