



PIK3CA Phospho-Tyr317 rabbit pAb

Catalog No	YP-Ab-10478
Isotype	IgG
Reactivity	Human; Mouse; Rat
Applications	WB
Gene Name	PIK3CA
Immunogen	Synthesized peptide derived from human PIK3CA Phospho-Tyr317
Specificity	This antibody detects endogenous levels of PIK3CA Phospho-Tyr317 at Human, Mouse, Rat
Formulation	Liquid in PBS containing 50% glycerol, and 0.133% sodium azide.
Source	Polyclonal, Rabbit, IgG
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PI3K p110(alpha); PIK3CA; EC:2.7.1.137; EC:2.7.11.1; p110 alpha; PI 3-kinase p110α; PIK3CA Phospho-Tyr317; Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform (PI3-kinase subunit alpha) (PI3K-alpha) (PI3Kalpha) (PtdIns-3-kinase subunit alpha) (EC 2.7.1.153) (Phosphatidylinositol 4,5-bisphosphate 3-kinase 110 kDa catalytic subunit alpha) (PtdIns-3-kinase subunit p110-alpha) (p110alpha) (Phosphoinositide-3-kinase catalytic alpha polypeptide) (Serine/threonine protein kinase PIK3CA) (EC 2.7.11.1)
Observed Band	110 kDa
Calculated Molecular Weight	1068 aa, 124 kDa
Cell Pathway	intracellular, cytosol, plasma membrane, phosphatidylinositol 3-kinase complex, phosphatidylinositol 3-kinase complex, class IA, lamellipodium,
Tissue Specificity	Brain, Lung,
Function	catalytic activity: ATP + 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate = ADP + 1-phosphatidyl-1D-myo-inositol 3,4,5-trisphosphate. .disease: Defects in PIK3CA are associated with breast cancer [MIM:114480]. .disease: Defects in PIK3CA are associated with colorectal cancer (CRC) [MIM:114500]. .disease: Defects in PIK3CA are associated with ovarian cancer [MIM:167000].

Ovarian cancer is the leading cause of death from gynecologic malignancy. It is characterized by advanced presentation with loco-regional dissemination in the peritoneal cavity and the rare incidence of visceral metastases. These typical features relate to the biology of the disease, which is a principal determinant of outcome. ,disease:Defects in PIK3CA may underlie hepatocellular carcinoma (HCC) [MIM:114550]. ,disease:PI3KCA mutations affecting exons 9 and 20 display gender-and tissue-specific patterns, thus suggesting that the

Background

Phosphatidylinositol 3-kinase is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. The protein encoded by this gene represents the catalytic subunit, which uses ATP to phosphorylate PtdIns, PtdIns4P and PtdIns(4,5)P2. This gene has been found to be oncogenic and has been implicated in cervical cancers. A pseudogene of this gene has been defined on chromosome 22. [provided by RefSeq, Apr 2016],

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