

## PI 3 kinase p110 $\alpha$ Phospho Tyr317 Rabbit pAb

CatalogNo: YP1706

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB

#### MW

- 117kD (Calculated)

#### Isotype

- IgG

### Storage

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

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

### Recommended Dilution Ratios

WB 1:500-2000

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from human PIK3CA Phospho-Tyr317

**Specificity** This antibody detects endogenous levels of PIK3CA Phospho-Tyr317 at Human, Mouse, Rat. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):TPyMN

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## | Target Information

**Gene name** PIK3CA

**Protein Name** PIK3CA Phospho-Tyr317

Organism	Gene ID	UniProt ID
Human	<a href="#">5290</a> ;	<a href="#">P42336</a> ;
Mouse	<a href="#">18706</a> ;	<a href="#">P42337</a> ;

**Cellular Localization** 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 different amino acid changes could exert distinct functional effects on the oncogenic properties of this enzyme. Furthermore , sexual dimorphisms and tissue specific factors might directly or indirectly influence the occurrence of PI3KCA cancer alleles. ,Function:Phosphorylates PtdIns , PtdIns4P and PtdIns (4 ,5) P2 with a preference for PtdIns (4 ,5) P2. ,similarity:Belongs to the PI3/PI4-kinase family. ,similarity:Contains 1 C2 domain. ,similarity:Contains 1 PI3K/PI4K domain. ,subunit:Heterodimer of a p110 (catalytic) and a p85 (regulatory) subunit. Binds to IRS1 in nuclear extracts. Interacts with RUFY3. ,

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## | Validation Data

### | Contact information

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