

## PI 3-kinase p110 $\alpha$ Rabbit pAb

CatalogNo: YT3709

Orthogonal Validated 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- IF, WB, IHC, ELISA

#### MW

- 110kD (Observed)

#### Isotype

- IgG

### Recommended Dilution Ratios

**IF 1:50-200****WB 1:500-1:2000****IHC 1:100-1:300****ELISA 1:40000****Not yet tested in other applications**

### 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.

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human PI 3-kinase p110 $\alpha$ . AA range: 470-519**Specificity** PI 3-kinase p110 $\alpha$  Polyclonal Antibody detects endogenous levels of PI 3-kinase p110 $\alpha$  protein.

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## | Target Information

**Gene name** PIK3CA

**Protein Name** Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform

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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**PI 3-kinase p110 $\alpha$**   
**Rabbit pAb**

