



# PI3 Kinase p110 alpha Rabbit mAb

|                           |                                                                                                                                                                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>         | YP-Ab-17844                                                                                                                                                                                                                                                                     |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                             |
| <b>Reactivity</b>         | Human,Mouse,Rat                                                                                                                                                                                                                                                                 |
| <b>Applications</b>       | WB,ICC/IF,IP                                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>          | PIK3CA                                                                                                                                                                                                                                                                          |
| <b>Alternative Names</b>  | phosphatidylinositol-4; 5-bisphosphate 3-kinase catalytic subunit alpha isoform; phosphoinositide-3-kinase catalytic alpha polypeptide; PI3-kinase p110 alpha; PI3K; PI3K p110-alpha; PK3CA; PtdIns-3-kinase p110                                                               |
| <b>Research Field</b>     | Signal Transduction                                                                                                                                                                                                                                                             |
| <b>Product Categories</b> | Primary antibody                                                                                                                                                                                                                                                                |
| <b>Host</b>               | Rabbit                                                                                                                                                                                                                                                                          |
| <b>Molecular Weight</b>   | Calculated MW: 124 kDa; Observed MW: 110 kDa                                                                                                                                                                                                                                    |
| <b>Clonality</b>          | Monoclonal Antibody                                                                                                                                                                                                                                                             |
| <b>Clonality No.</b>      | R02-6C5                                                                                                                                                                                                                                                                         |
| <b>Dilution</b>           | WB: 1/500-1/1000 IF: 1/50-1/200 IP: 1/20                                                                                                                                                                                                                                        |
| <b>Immunogen</b>          | A synthesized peptide derived from human PI 3 Kinase catalytic subunit alpha                                                                                                                                                                                                    |
| <b>Purification</b>       | Affinity Chromatography                                                                                                                                                                                                                                                         |
| <b>Conjugation</b>        | Unconjugated                                                                                                                                                                                                                                                                    |
| <b>Modification</b>       | Unmodified                                                                                                                                                                                                                                                                      |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                          |
| <b>Buffer System</b>      | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                              |
| <b>Concentration</b>      | 1 mg/ml                                                                                                                                                                                                                                                                         |
| <b>Purity</b>             | ≥90%                                                                                                                                                                                                                                                                            |
| <b>Storage</b>            | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.                                                                                                                                                                                        |
| <b>Background</b>         | Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns(4,5)P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by |



recruiting PH domain-containing proteins to the membrane, including AKT1 and PDPK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

**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

