



# PI3-Kinase p110 $\gamma$ Rabbit mAb

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| Catalog No                  | YP-rAb-17358                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Isotype                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Reactivity                  | Human,Mouse,Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Applications                | WB,IF,IP,ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Name                   | PIK3CG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Protein Name                | Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit gamma isoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purification Process        | Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Specificity                 | Endogenous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Formulation                 | PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Source                      | Monoclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Dilution                    | WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Concentration               | 0.5 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Purity                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Storage Stability           | -15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Synonyms                    | PIK3CG ; Phosphatidylinositol 4 ; 5-bisphosphate 3-kinase catalytic subunit gamma isoform ; PI3-kinase subunit gamma ; PI3K-gamma ; PI3Kgamma ; PtdIns-3-kinase subunit gamma ; Phosphatidylinositol 4,5-bisphosphate 3-kinase 110 kDa catalytic subunit                                                                                                                                                                                                                                                                                                                                                           |
| Observed Band               | 127kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Calculated Molecular Weight | 127kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cell Pathway                | Cytoplasm . Cell membrane .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Tissue Specificity          | Pancreas, skeletal muscle, liver and heart.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Function                    | Catalytic activity:ATP + 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate = ADP + 1-phosphatidyl-1D-myo-inositol 3,4,5-trisphosphate.,enzyme regulation:Activated by both the alpha and the beta-gamma G proteins.,Function:3-phosphorylates the cellular phosphoinositide PtdIns-4,5-biphosphate P2) to produce PtdIns-3, 4,5-triiphosphate P3). Links G-protein coupled receptor activation to the secondary messenger PtdIns(3,4,5)P3 production.,pathway:Phospholipid metabolism; phosphatidylinositol phosphate biosynthesis.,similarity:Belongs to the PI3/PI4-kinase family.,similarity:Contains 1 PI3K/PI4K |





domain.,subunit:Heterodimer of a catalytic subunit (PIK3CG/p120) and a regulatory (PIK3R5a/p101) subunit.,tissue specificity:Pancreas, skeletal muscle, liver and heart.,

## Background

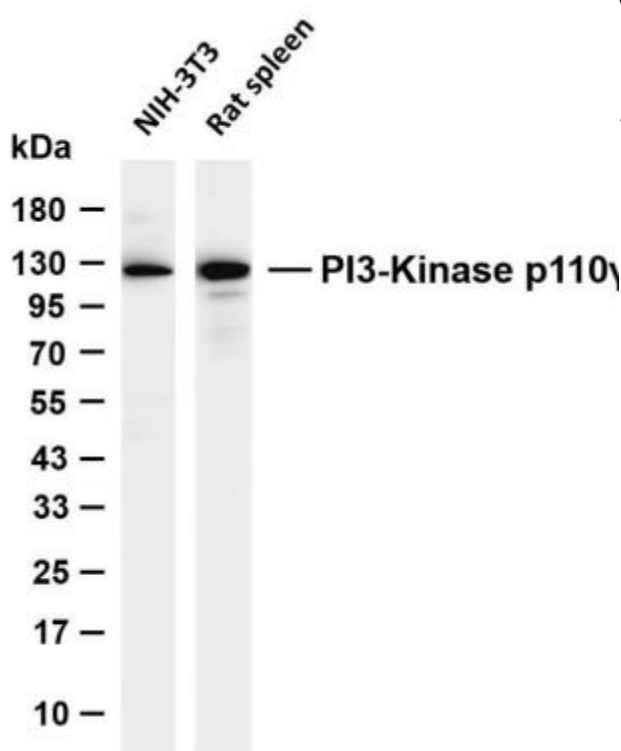
Phosphoinositide 3-kinases (PI3Ks) phosphorylate inositol lipids and are involved in the immune response. The protein encoded by this gene is a class I catalytic subunit of PI3K. Like other class I catalytic subunits (p110-alpha p110-beta, and p110-delta), the encoded protein binds a p85 regulatory subunit to form PI3K. This gene is located in a commonly deleted segment of chromosome 7 previously identified in myeloid leukemias. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jun 2015],

## 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.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PI3-Kinase p110  $\gamma$  antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: NIH-3T3 Lane 2: Rat spleen Predicted band size: 127kDa Observed band size: 127kDa

