

PI 3-kinase p110 α rabbit pAb**Cat#: orb766072 (Manual)**

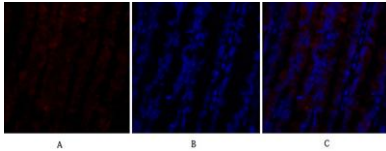
For research use only. Not intended for diagnostic use.

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| Product Name | PI 3-kinase p110 α rabbit pAb |
| Host species | Rabbit |
| Applications | IF;WB;IHC;ELISA |
| Species Cross-Reactivity | Human;Mouse;Rat |
| Recommended dilutions | IF: 1:50-200 Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. |
| Immunogen | The antiserum was produced against synthesized peptide derived from human PI 3-kinase p110 α . AA range:470-519 |
| Specificity | PI 3-kinase p110 α Polyclonal Antibody detects endogenous levels of PI 3-kinase p110 α protein. |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.. |
| Storage | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| Protein Name | Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform |
| Gene Name | PIK3CA |
| Cellular localization | intracellular,cytosol,plasma membrane,phosphatidylinositol 3-kinase complex,phosphatidylinositol 3-kinase complex, class IA,lamellipodium, |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |

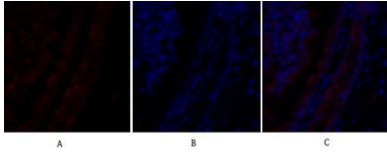
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|--------------------------------|---|
| Clonality | Polyclonal |
| Concentration | 1 mg/ml |
| Observed band | 110kD |
| Human Gene ID | 5290 |
| Human Swiss-Prot Number | P42336 |
| Alternative Names | PIK3CA; Phosphatidylinositol 4; 5-bisphosphate 3-kinase catalytic subunit alpha isoform; PI3-kinase subunit alpha; PI3K-alpha; PI3Kalpha; PtdIns-3-kinase subunit alpha; Phosphatidylinositol 4,5-bisphosphate 3-kinase 110 kDa catalytic subunit |

Background

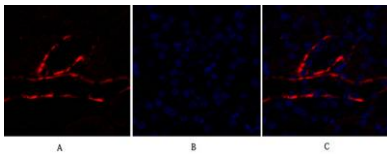
Phosphatidylinositol 3-kinase is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. The protein encoded by this gene represents the catalytic subunit, which uses ATP to phosphorylate PtdIns, PtdIns4P and PtdIns(4,5)P₂. This gene has been found to be oncogenic and has been implicated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



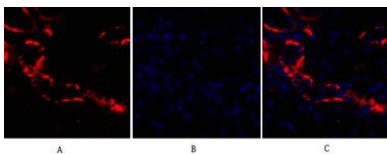
Immunofluorescence analysis of rat-lung tissue. 1, PI 3-kinase p110α Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of rat-lung tissue. 1,PI 3-kinase p110 α Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of rat-kidney tissue. 1,PI 3-kinase p110 α Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of rat-kidney tissue. 1,PI 3-kinase p110 α Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B