



## PI 3-kinase p110α Polyclonal Antibody

Isotype   IgG		
Reactivity  Human; Mouse; Rat  Applications  IF; WB; IHC; ELISA  Gene Name  PIK3CA  Protein Name  Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform  Immunogen  The antiserum was produced against synthesized peptide derived from human P 3-kinase p110alpha. AA range: 470-519  Specificity  Pi 3-kinase p110a Polyclonal Antibody detects endogenous levels of PI 3-kinase p110a protein.  Formulation  Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source  Polyclonal, Rabbit, IgG  Purification  The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution  IF: 1:50-200 Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.  Concentration  1 mg/ml  Purity  290%  Storage Stability  -20°C/1 year  Synonyms  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  Observed Band  110kD  Cell Pathway  intracellular, cytosol, plasma membrane, phosphatidylinositol 3-kinase complex, class IA, lamellipodium,  Brain, Lung,  Catalytic activity: ATP + 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate = ADP 1-phosphatidyl-1D-myo-inositol 3-kinase complex, class IA, lamellipodium,  Brain, Lung,  Catalytic activity: ATP + 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate = IR3CA are associated with boreast cancer [MIM: 114480], disease: Defects in PIK3CA are associated with tovarian cancer [MIM: 114000]. Ovarian cancer is the leading cause of death from dynecologic malignancy. It is characterized by the leading cause of death from dynecologic malignancy. It is characterized by the leading cause of death from dynecologic malignancy. It is characterized by the leading cause of death from dynecologic malignancy. It is characterized by	Catalog No	BYab-14913
Applications  IF;WB;HC;ELISA  Gene Name  Plosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform  Immunogen  The antiserum was produced against synthesized peptide derived from human P 3-kinase p110alpha. AA range:470-519  Specificity  Pl 3-kinase p110a Polyclonal Antibody detects endogenous levels of Pl 3-kinase p110a protein.  Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source  Polyclonal, Rabbit, IgG  Purification  The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  IF: 1:50-200 Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.  Concentration  1 mg/ml  Purity  ≥90%  Storage Stability  -20°C/1 year  Synonyms  PIK3CA; Phosphatidylinositol 4; 5-bisphosphate 3-kinase catalytic subunit alpha isoform; Pl3-kinase subunit alpha; Pl3K-alpha; Pl3Kalpha; PtdIns-3-kinase subunit alpha; Phosphatidylinositol 4,5-bisphosphate 3-kinase 110 kDa catalytic subunit  Observed Band  110kD  Cell Pathway  intracellular, cytosol, plasma membrane, phosphatidylinositol 3-kinase complex, class IA, lamellipodium,  Brain, Lung,  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 tovarian cancer [MIM:1144000]. Ovarian cancer is the leading cause of death from gynecologic malignancy. It is characterized by leading cause of death from gynecologic malignancy. It is characterized by leading cause of death from gynecologic malignancy. It is characterized by leading cause of death from gynecologic malignancy. It is characterized by leading cause of death from gynecologic malignancy. It is characterized by	Isotype	IgG
Gene Name         PIK3CA           Protein Name         Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform           Immunogen         The antiserum was produced against synthesized peptide derived from human P 3-kinase p110α lapha. AA range:470-519           Specificity         Pl 3-kinase p110α Polyclonal Antibody detects endogenous levels of Pl 3-kinase p110α protein.           Formulation         Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.           Source         Polyclonal, Rabbit, IgG           Purification         The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.           Dilution         IF: 1:50-200 Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         PIK3CA; Phosphatidylinositol 4; 5-bisphosphate 3-kinase catalytic subunit alpha isoform; Pl3-kinase subunit alpha; Pl3K-alpha; Pl3Kalpha; PtdIns-3-kinase subunit alpha; Phosphatidylinositol 3-kinase complex, class IA, lamellipodium,           Observed Band         110kD           Cell Pathway         intracellular, cytosol, plasma membrane, phosphatidylinositol 3-kinase complex, phosphatidyl-1D-myo-inositol 3,4,5-trisphosphate, disease: Defects in PIK3CA are associated with coloredia cancer (IRK) [MIM: 114500], disease: Defects in PIK3CA are	Reactivity	Human;Mouse;Rat
Protein Name         Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform           Immunogen         The antiserum was produced against synthesized peptide derived from human P 3-kinase p110α pha. AA range:470-519           Specificity         Pl 3-kinase p110α Polyclonal Antibody detects endogenous levels of Pl 3-kinase p110α protein.           Formulation         Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.           Source         Polyclonal, Rabbit, IgG           Purification         The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.           Dilution         IF: 1:50-200 Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         PIK3CA; Phosphatidylinositol 4; 5-bisphosphate 3-kinase catalytic subunit alpha isoform; PI3-kinase subunit alpha; Pl3K-alpha; Pl3K-alpha; PtdIns-3-kinase subunit alpha; Phosphatidylinositol 4,5-bisphosphate 3-kinase 110 kDa catalytic subunit           Observed Band         110kD           Cell Pathway         intracellular, cytosol, plasma membrane, phosphatidylinositol 3-kinase complex, class IA, lamellipodium,           Tissue Specificity         Brain, Lung,           Function         catalytic activity:ATP + 1-phosphatidyl-1D-myo-inositol	Applications	IF;WB;IHC;ELISA
Immunogen The antiserum was produced against synthesized peptide derived from human P 3-kinase p110alpha. AA range:470-519  Specificity Pl 3-kinase p110α Polyclonal Antibody detects endogenous levels of Pl 3-kinase p110α protein.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Polyclonal, Rabbit,IgG  Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution IF: 1:50-200 Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms 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  Observed Band 110kD  Cell Pathway intracellular, cytosol, plasma membrane, phosphatidylinositol 3-kinase complex, phosphatidylinositol 3-kinase complex, class IA, lamellipodium,  Brain, Lung,  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 ovarian cancer (RCC) (MIM: 114500), disease: Defects in PIK3CA are associated with ovarian cancer (RCC) (miM: 114500), disease: Defects in PIK3CA are associated with ovarian cancer [MIM: 167000]. Ovarian cancer is the leading cause of death from gynecologic melignancy. It is characterized by	Gene Name	PIK3CA
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Polyclonal, Rabbit, IgG	Immunogen	The antiserum was produced against synthesized peptide derived from human PI 3-kinase p110alpha. AA range:470-519
Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution  IF: 1:50-200 Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.  Concentration  1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms  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  Observed Band  110kD  Cell Pathway  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:1144500], disease:Defects in PIK3CA are associated with colorectal cancer (CRC) [MIM:114500], disease:Defects in PIK3CA are associated with ovarian cancer [MIM:114500], disease:Defects in PIK3CA are associated with ovarian cancer [MIM:114500], disease:Defects in PIK3CA are associated with ovarian cancer [MIM:114500], disease:Defects in PIK3CA are associated with ovarian cancer [MIM:116700]. Ovarian cancer is the leading cause of death from gynecologic malignary. It is characterized by	Specificity	PI 3-kinase p110 $\alpha$ Polyclonal Antibody detects endogenous levels of PI 3-kinase p110 $\alpha$ protein.
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Concentration       1 mg/ml         Purity       ≥90%         Storage Stability       -20°C/1 year         Synonyms       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         Observed Band       110kD         Cell Pathway       intracellular,cytosol,plasma membrane,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:11450], 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	Purification	
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Synonyms  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  Observed Band  110kD  Cell Pathway  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 ovarian cancer [MIM:167000]. Ovarian cancer is the leading cause of death from gynecologic malignancy. It is characterized by	Purity	≥90%
isoform; PI3-kinase subunit alpha; PI3K-alpha; PI3Kalpha; PtdIns-3-kinase subunit alpha; Phosphatidylinositol 4,5-bisphosphate 3-kinase 110 kDa catalytic subunit  Observed Band  110kD  Cell Pathway  intracellular,cytosol,plasma membrane,phosphatidylinositol 3-kinase complex,phosphatidylinositol 3-kinase complex, class IA,lamellipodium,  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 reast cancer [MIM:114480],.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	Storage Stability	-20°C/1 year
Cell Pathway  intracellular,cytosol,plasma membrane,phosphatidylinositol 3-kinase complex,phosphatidylinositol 3-kinase complex, class IA,lamellipodium,  Brain,Lung,  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	Synonyms	isoform; PI3-kinase subunit alpha; PI3K-alpha; PI3Kalpha; PtdIns-3-kinase subunit alpha; Phosphatidylinositol 4,5-bisphosphate 3-kinase 110 kDa catalytic
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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	Cell Pathway	intracellular,cytosol,plasma membrane,phosphatidylinositol 3-kinase complex,phosphatidylinositol 3-kinase complex, class IA,lamellipodium,
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	Function	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

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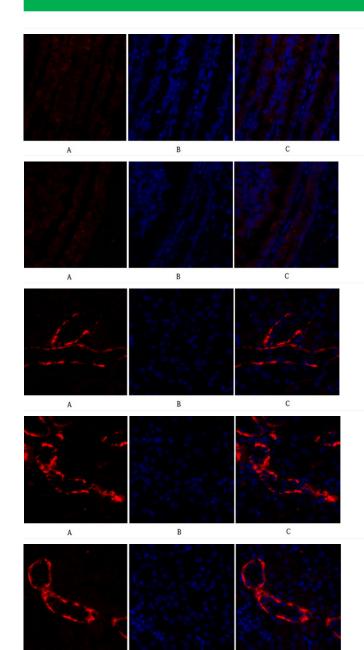


	and the rare incidence of visceral metastases. These typical features relate to the biology of the disease, which is a principal determinant of outcome.,disease:Defects in PIK3CA may underlie hepatocellular carcinoma (HCC) [MIM:114550].,disease:PI3KCA mutations affecting exons 9 and 20 display gender-and tissue-specific patterns, thus suggesting that the
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],
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**



Immunofluorescence analysis of rat-lung tissue. 1,PI 3-kinase p110α Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled 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-lung tissue. 1,PI 3-kinase p110α Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled 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 p110α Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled 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 p110α Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled 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 mouse-kidney tissue. 1,PI 3-kinase p110α Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled 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