## For Research Use Only

# PI3 Kinase p110 Alpha Polyclonal antibody



Catalog Number: 21890-1-AP

18 Publications

**Basic Information** 

Catalog Number: GenBank Accession Number: 21890-1-AP BC113601 GeneID (NCBI): Size: 240 μg/ml 5290 **UNIPROT ID:** Source: Rabbit P42336 Full Name: Isotype:

phosphoinositide-3-kinase, catalytic, alpha polypeptide Immunogen Catalog Number:

AG16586 Calculated MW: 1068 aa, 124 kDa Observed MW: 110 kDa

Antigen affinity purification Recommended Dilutions: WB 1:500-1:3000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:100-1:400 IF 1:50-1:500

**Purification Method:** 

**Applications** 

**Tested Applications:** FC, IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:** 

Species Specificity: human, mouse, rat **Cited Species:** human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: human brain tissue, Jurkat cells

IP: mouse heart tissue,

IHC: human lung cancer tissue, human breast cancer

tissue

IF: MCF-7 cells,

# **Background Information**

PIK3CA belongs to the PI3/PI4-kinase family. It phosphorylates PtdIns, PtdIns4P and PtdIns(4,5)P2 with a preference for PtdIns(4,5)P2. Defects in PIK3CA are associated with colorectal cancer (CRC). Defects in PIK3CA are associated with breast cancer. Defects in PIK3CA are associated with ovarian cancer. Defects in PIK3CA may underlie hepatocellular carcinoma (HCC). Defects in PIK3CA are a cause of keratosis seborrheic (KERSEB).

#### **Notable Publications**

Author	Pubmed ID	Journal	Application
Koichi Baba	28894280	Sci Rep	WB
Binwu Hu	28932123	Onco Targets Ther	WB
Li Jia	29030743	Dig Dis Sci	WB

Storage

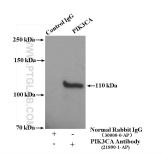
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

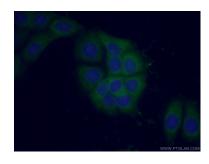
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## **Selected Validation Data**



IP result of anti-Pl3 Kinase p110 Alpha (IP:21890-1-AP, 4ug; Detection:21890-1-AP 1:300) with mouse heart tissue lysate 3600 ug.



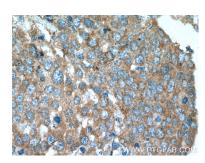
Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using 21890-1-AP (PI3K p110(alpha) antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



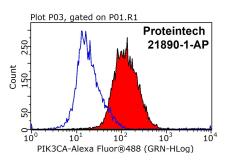
human brain tissue were subjected to SDS PAGE followed by western blot with 21890-1-AP (PI3K p110(alpha) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 21890-1-AP (PI3K p110(alpha) antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 21890-1-AP (PI3K p110(alpha) antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 Jurkat cells were stained with 0.5ug Pl3K p110(alpha) antibody (21890-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.