

# PI3 Kinase p110 Alpha Monoclonal antibody

Catalog Number: 67071-1-Ig

Featured Product

80 Publications

## Basic Information

<b>Catalog Number:</b> 67071-1-Ig	<b>GenBank Accession Number:</b> BC113601	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5290	<b>CloneNo.:</b> 1F6A7
<b>Source:</b> Mouse	<b>Full Name:</b> phosphoinositide-3-kinase, catalytic, alpha polypeptide	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:250-1:1000 IF 1:200-1:800
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 1068 aa, 124 kDa	
<b>Immunogen Catalog Number:</b> AG17392	<b>Observed MW:</b> 110 kDa	

## Applications

**Tested Applications:**  
FC, IF, IHC, WB, ELISA

**Cited Applications:**  
CoIP, IHC, RIP, WB

**Species Specificity:**  
Human, Mouse, Rat, Pig, Rabbit, rabbit

**Cited Species:**  
human, rat, mouse, monkey, fish, bovine

**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:** U2OS cells, pig brain tissue, LNCaP cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, rabbit brain tissue, rat brain tissue, mouse brain tissue

**IHC:** human breast cancer tissue,

**IF:** HeLa 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
Lei Zhang	34592228	Life Sci	WB
Bailu Duan	36073658	Chem Biodivers	WB
Yujing Sun	32965543	J Cancer Res Clin Oncol	WB

## Storage

**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

\*\*\* 20ul sizes contain 0.1% BSA

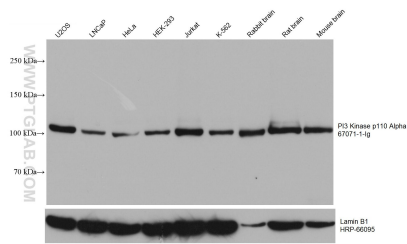
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

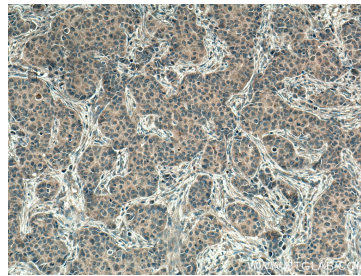
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

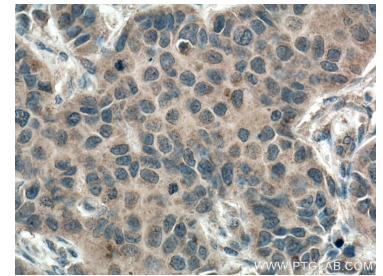
## Selected Validation Data



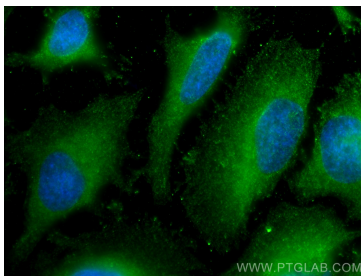
U2OS cells were subjected to SDS PAGE followed by western blot with 67071-1-Ig (PI3 Kinase p110 Alpha antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



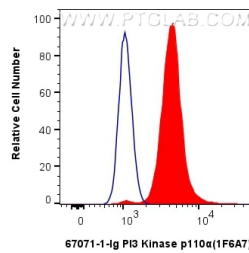
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67071-1-Ig (PIK3CA antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67071-1-Ig (PIK3CA antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using PI3 Kinase p110 Alpha antibody (67071-1-Ig, Clone: 1F6A7) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10<sup>6</sup> Jurkat cells were intracellularly stained with 0.4 ug Anti-Human PI3 Kinase p110 Alpha (67071-1-Ig, Clone:1F6A7) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (MPC-11) (65128-1-Ig, Clone: MPC-11) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).