

For Research Use Only

# PI3 Kinase p110 Beta Polyclonal antibody



Catalog Number: 21739-1-AP

12 Publications

## Basic Information

<b>Catalog Number:</b> 21739-1-AP	<b>GenBank Accession Number:</b> BC114432	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 387 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5291	<b>Recommended Dilutions:</b> IHC 1:20-1:200 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> phosphoinositide-3-kinase, catalytic, beta polypeptide	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 1070 aa, 123 kDa	
<b>Immunogen Catalog Number:</b> AG16456	<b>Observed MW:</b> 110 kDa	

## Applications

### Tested Applications:

IF, IHC, ELISA

### Cited Applications:

IF, IHC, WB

### Species Specificity:

human

### Cited Species:

human, mouse

**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:

IHC : human liver cancer tissue, human testis tissue

IF : HeLa cells,

## Background Information

PIK3CB (phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform) is also named as PIK3C1, PI3K-beta, p110beta. The gene encodes a 1070 amino acid protein which belongs to the PI3/PI4-kinase family. Phosphoinositide 3-kinases (PI3Ks) have been implicated as participants in signaling pathways regulating cell growth by virtue of their activation in response to various mitogenic stimuli. The class I PI3 kinases are heterodimers composed of 110 kDa catalytic subunits that associate with regulatory adaptor proteins. Four class I catalytic subunits have been identified, PIK3CA (p110α), PIK3CB (p110β), PIK3CD (p110δ) and PIK3CG (p110γ) (PMID:19177002).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhaomeng Wu	29620175	Mol Med Rep	
Yuan-Yuan Gao	35047352	Int J Ophthalmol	WB
Xuan Zhou	33843164	J Zhejiang Univ Sci B	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

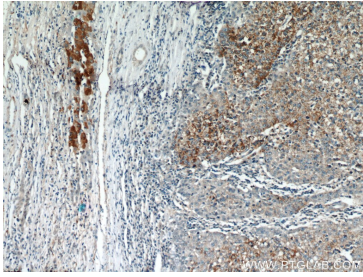
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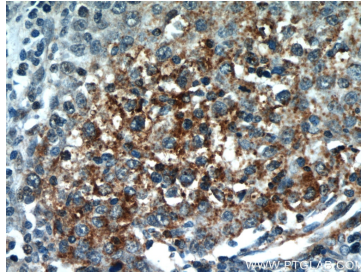
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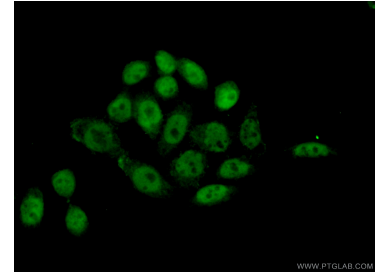
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human liver cancer using 21739-1-AP (PI3K p110(beta) antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver cancer using 21739-1-AP (PI3K p110(beta) antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 21739-1-AP (PI3K p110(beta) antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).