

For Research Use Only

PI3 Kinase p110 Beta Monoclonal antibody

Catalog Number: 67121-1-Ig

26 Publications



Basic Information

Catalog Number: 67121-1-Ig	GenBank Accession Number: BC114432	Purification Method: Protein G purification
Size: 150ul , Concentration: 2000 ug/ml by Nanodrop and 1107 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5291	CloneNo.: 1B2A1
Source: Mouse	UNIPROT ID: P42338	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:150-1:600 IF/ICC 1:1000-1:4000
Isotype: IgG1	Full Name: phosphoinositide-3-kinase, catalytic, beta polypeptide	
Immunogen Catalog Number: AG17505	Calculated MW: 1070 aa, 123 kDa	
	Observed MW: 120-130 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human, 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 : HEK-293 cells, HeLa cells, MCF-7 cells, SH-SY5Y cells, PC-12 cells

IHC : human lung cancer tissue, human colon cancer tissue, human cervical cancer tissue

IF/ICC : 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 (p110 α), PIK3CB (p110 β), PIK3CD (p110 δ) and PIK3CG (p110 γ) (PMID:19177002).

Notable Publications

Author	Pubmed ID	Journal	Application
Fei Liu	36497344	Cancers (Basel)	WB
Han Xu	36434729	Chin Med	WB
Ruichuang Yang	34824590	Evid Based Complement Alternat Med	WB

Storage

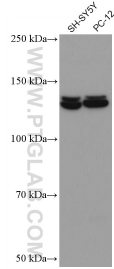
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

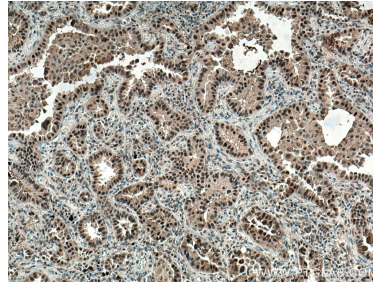
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

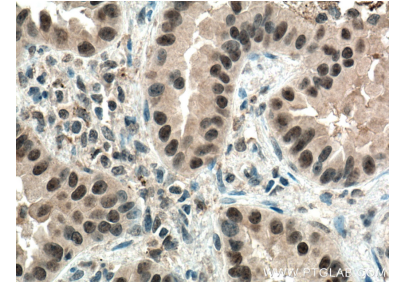
Selected Validation Data



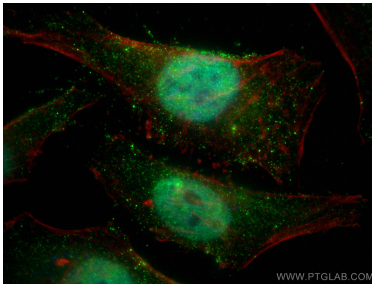
Various lysates were subjected to SDS PAGE followed by western blot with 67121-1-Ig (PIK3CB antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 67121-1-Ig (PIK3CB antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 67121-1-Ig (PIK3CB antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PI3 Kinase p110 Beta antibody (67121-1-Ig, Clone: 1B2A1) at dilution of 1:2000 and Multi-rAb CoraLite® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002), CL594-phalloidin (red).