

For Research Use Only

PI3 Kinase p110 Beta Monoclonal antibody

Catalog Number: 67121-1-Ig 27 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	Calculated MW:	1070 aa, 123 kDa
Immunogen Catalog Number:	AG17505	Observed MW:	120-130 kDa		

Applications

Tested Applications:	WB, IHC, IF/ICC, ELISA	Positive Controls:	WB : HEK-293 cells, HeLa cells, MCF-7 cells, SH-SY5Y cells, PC-12 cells
Cited Applications:	WB, IHC	IHC :	human lung cancer tissue, human colon cancer tissue, human cervical cancer tissue
Species Specificity:	human, rat	IF/ICC :	HeLa cells,
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			

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

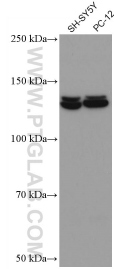
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

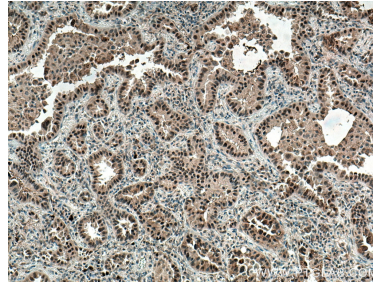
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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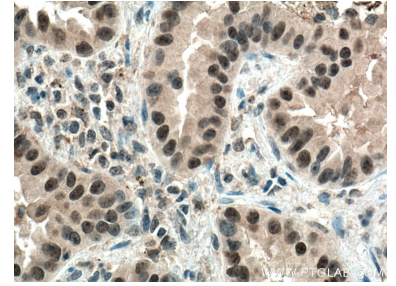
Selected Validation Data



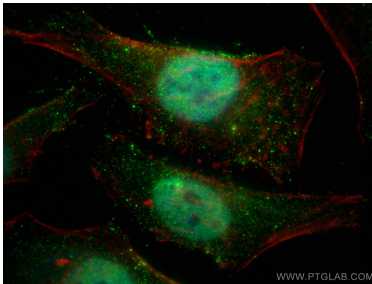
Various lysates were subjected to SDS PAGE followed by western blot with 67121-1-Ig (PIK3CB antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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).