

For Research Use Only

PI3 Kinase p110 Beta Monoclonal antibody



Catalog Number: 67121-1-Ig **22 Publications**

Basic Information

Catalog Number: 67121-1-Ig	GenBank Accession Number: BC114432	Purification Method: Protein A purification
Size: 2000 µg/ml	GeneID (NCBI): 5291	CloneNo.: 1B2A1
Source: Mouse	UNIPROT ID: P42338	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:150-1:600
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: IHC, WB, 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	
Cited Species: human, rat, mouse	

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

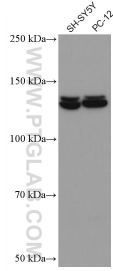
Storage

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

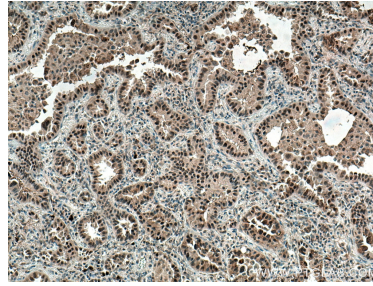
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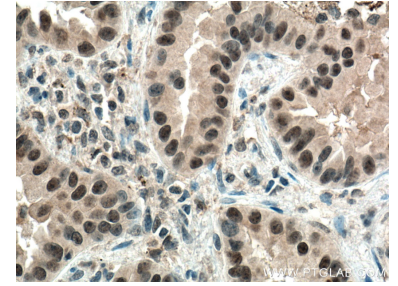
Selected Validation Data



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)).