

For Research Use Only

# PI3 Kinase p85 Beta Monoclonal antibody

Catalog Number: 67644-1-Ig **7 Publications**



## Basic Information

<b>Catalog Number:</b> 67644-1-Ig	<b>GenBank Accession Number:</b> BC014170	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1500 µg/ml	<b>GeneID (NCBI):</b> 5296	<b>CloneNo.:</b> 2B3B6
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O00459	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:200-1:800 IF/ICC 1:400-1:1600
<b>Isotype:</b> IgG2b	<b>Full Name:</b> phosphoinositide-3-kinase, regulatory subunit 2 (beta)	
<b>Immunogen Catalog Number:</b> AG14369	<b>Calculated MW:</b> 728 aa, 82 kDa	
	<b>Observed MW:</b> 85 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> <b>WB</b> : HEK-293 cells, LNCaP cells, HeLa cells, MCF-7 cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, Jurkat cells <b>IHC</b> : human colon tissue, <b>IF/ICC</b> : HeLa cells,
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> Human, Mouse, Rat	
<b>Cited Species:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

PI3 Kinase p85 is also named as PIK3R2 and belongs to the PI3K p85 subunit family. PI3 Kinase p85 is a regulatory subunit of phosphoinositide-3-kinase (PI3K) which is a kinase that phosphorylates phosphatidylinositol 4,5-bisphosphate to generate PIP3. PI3 Kinase p85 binds to activated (phosphorylated) protein-tyrosine kinases through its SH2 domain, and then acts as an adapter to mediate the association of the p110 catalytic unit to the plasma membrane. It promotes nuclear translocation of XBP1 isoform 2 in a ER stress or insulin-dependent manner during metabolic overloading in the liver and hence plays a role in glucose tolerance improvement (PMID:23604317).

## Notable Publications

Author	Pubmed ID	Journal	Application
Chengliang Wang	33781876	J Ethnopharmacol	WB
Dan Wang	34160118	Environ Toxicol	WB
Yiming Xia	35468821	Proteome Sci	WB,IF

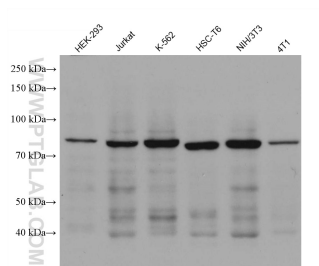
## Storage

**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

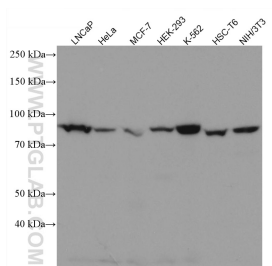
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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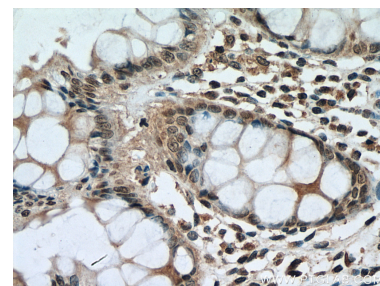
## Selected Validation Data



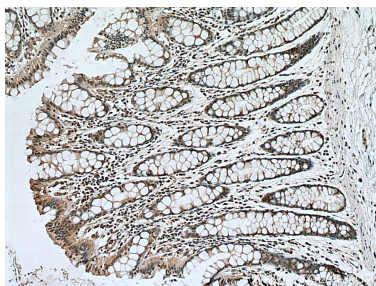
Various lysates were subjected to SDS PAGE followed by western blot with 67644-1-Ig (PI3 Kinase p85 Beta antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



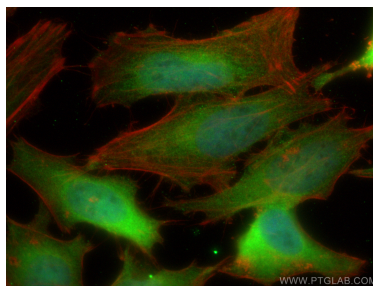
Various lysates were subjected to SDS PAGE followed by western blot with 67644-1-Ig (PIK3R2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 67644-1-Ig (PIK3R2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 67644-1-Ig (PIK3R2 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PI3 Kinase p85 Beta antibody (67644-1-Ig, Clone: 2B3B6) at dilution of 1:800 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).