For Research Use Only

PI3 Kinase p85 Beta Monoclonal antibody

Catalog Number:67644-1-Ig

7 Publications

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Basic Information

Catalog Number:
67644-1-Ig

Size:
150ul , Concentration: 2100 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG14369

GenBank Accession Number:
BC014170

GeneID (NCBI):
5296

UNIPROT ID:
O00459

Full Name:
phosphoinositide-3-kinase, regulatory subunit 2 (beta)

Calculated MW:
728 aa, 82 kDa

Observed MW:
85 kDa

Purification Method:
Protein A purification

CloneNo.:
2B3B6

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:200-1:800
IF/ICC 1:400-1:1600

Applications

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

Cited Applications:
WB, IHC, IF

Species Specificity:
Human, Mouse, 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, LNCaP cells, HeLa cells, MCF-7 cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, Jurkat cells

IHC : human colon tissue,

IF/ICC : HeLa cells,

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

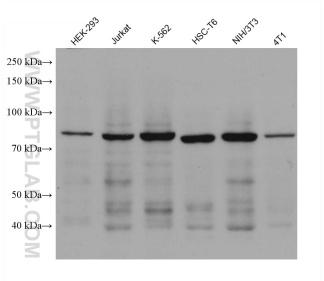
Storage

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

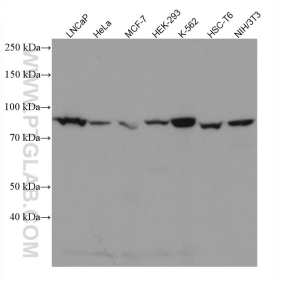
*** 20ul sizes contain 0.1% BSA

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

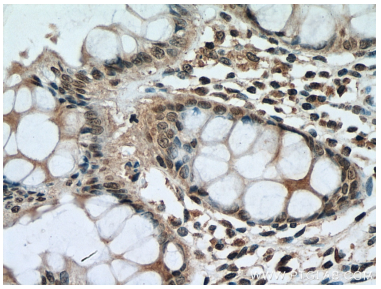
Selected Validation Data



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.

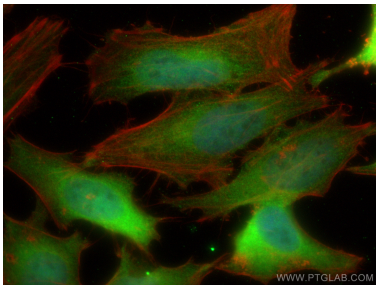


Various lysates were subjected to SDS PAGE followed by western blot with 67644-1-Ig (PIK3R2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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).