

For Research Use Only

PI3 Kinase p85 Beta Polyclonal antibody

Catalog Number: 25868-1-AP

2 Publications



Basic Information

Catalog Number:

25868-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

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:

82 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:250-1:1000

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, 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 : K-562 cells, U-937 cells

IHC : human placenta tissue, mouse kidney tissue, mouse small intestine tissue, rat kidney tissue, rat small intestine tissue

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
Yunna Jia	40004224	Int J Mol Sci	WB
Hongqi Zhao	39404298	Nanomaterials (Basel)	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

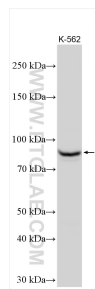
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

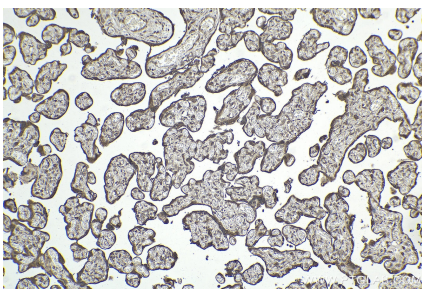
E: proteintech@ptglab.com
W: ptglab.com

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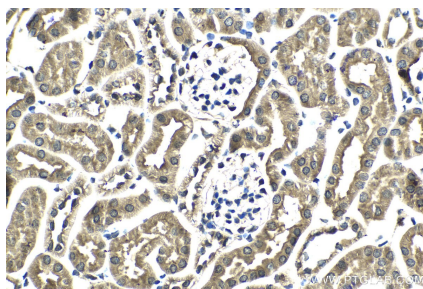
Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 25868-1-AP (PI3 Kinase p85 Beta antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



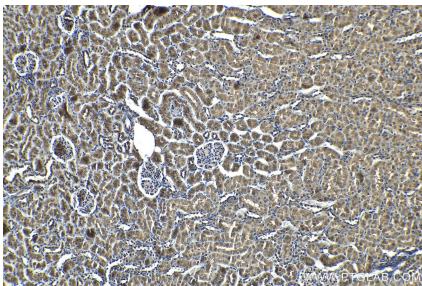
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 25868-1-AP (PI3 Kinase p85 Beta antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



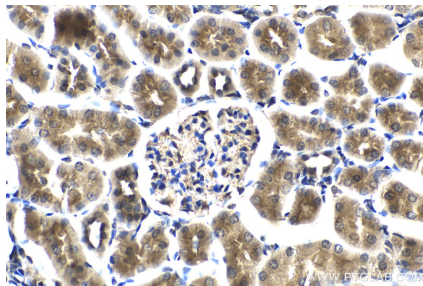
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 25868-1-AP (PI3 Kinase p85 Beta antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 25868-1-AP (PI3 Kinase p85 Beta antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



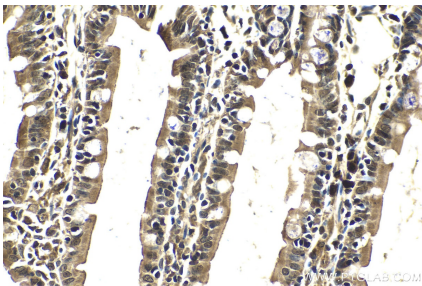
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 25868-1-AP (PI3 Kinase p85 Beta antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 25868-1-AP (PI3 Kinase p85 Beta antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat small intestine tissue slide using 25868-1-AP (PI3 Kinase p85 Beta antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat small intestine tissue slide using 25868-1-AP (PI3 Kinase p85 Beta antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).