

For Research Use Only

# PI3 Kinase p55 Gamma Polyclonal antibody

Catalog Number: 27035-1-AP

Featured Product

5 Publications



## Basic Information

### Catalog Number:

27035-1-AP

### Size:

150ul, Concentration: 850 ug/ml by Nanodrop and 533 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG25884

### GenBank Accession Number:

BC021622

### GeneID (NCBI):

8503

### UNIPROT ID:

Q92569

### Full Name:

phosphoinositide-3-kinase, regulatory subunit 3 (gamma)

### Calculated MW:

85 kDa

### Observed MW:

55 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human

### 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: MCF-7 cells, HUVEC cells, HEK-293 cells

IHC: human kidney tissue, mouse testis tissue, mouse kidney tissue

## Background Information

PIK3R3, also named as p55PIK, belongs to the PI3K p85 subunit family. It binds to activated (phosphorylated) protein-tyrosine kinases through its SH2 domain and regulates their kinase activity. During INS stimulation, it also binds to IRS-1. It is a component of a heterodimer of p110 (catalytic) and p55 (regulatory) subunits. The antibody is specific to PIK3R3.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ting Wang	33949204	Am J Physiol Lung Cell Mol Physiol	IHC
Barnabas Irmr	39825568	Mol Oncol	IHC
Maoxian Li	39466763	PLoS One	WB

## 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

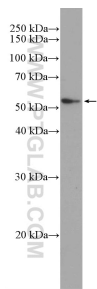
For technical support and original validation data for this product please contact:

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

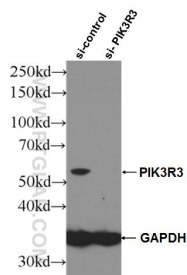
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

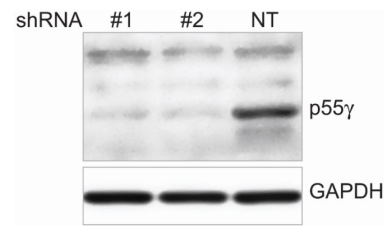
Selected Validation Data



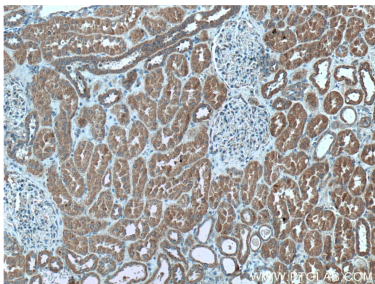
MCF-7 cells were subjected to SDS PAGE followed by western blot with 27035-1-AP (PI 3 Kinase p55 gamma antibody at dilution of 1:1000 incubated at 4 degree celsius over night.



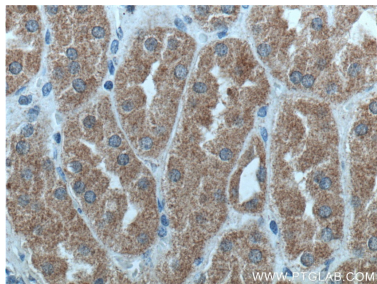
WB result of PI 3 Kinase p55 gamma antibody (27035-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PI 3 Kinase p55 gamma transfected HEK-293 cells.



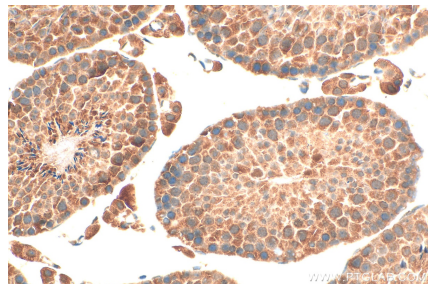
WB result of PIK3R3 antibody (27035-1-AP) on whole cell extract from HUVEC targeted by shRNAs (#1, #2) or a control shRNA (NT). (Data from Dr. Fuqiang Geng, Weill Cornell Medical College).



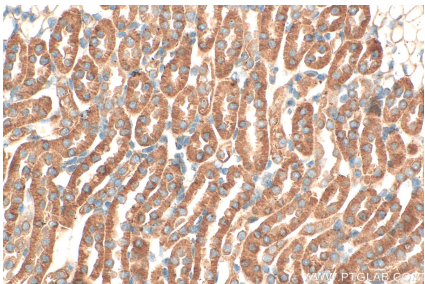
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 27035-1-AP (PI 3 Kinase p55 gamma antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 27035-1-AP (PI 3 Kinase p55 gamma antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 27035-1-AP (PI3 Kinase p55 Gamma antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 27035-1-AP (PI3 Kinase p55 Gamma antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).