

For Research Use Only

# VPS34 (C terminal) Polyclonal antibody



Catalog Number: 12452-1-AP

Featured Product

51 Publications

## Basic Information

### Catalog Number:

12452-1-AP

### Size:

150ul, Concentration: 550 µg/ml by Nanodrop and 380 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3110

### GenBank Accession Number:

BC033004

### GeneID (NCBI):

5289

### Full Name:

phosphoinositide-3-kinase, class 3

### Calculated MW:

887 aa, 100 kDa

### Observed MW:

100 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:100-1:400

IF 1:10-1:100

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

ColP, IF, IP, WB

### Species Specificity:

human, mouse, 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**

### Positive Controls:

**WB** : PC-3 cells, mouse brain tissue, HeLa cells, human testis tissue, human brain tissue, mouse lung tissue, mouse testis tissue, Jurkat cells, rat brain tissue

**IHC** : human prostate cancer tissue, human heart tissue

**IF** : PC-3 cells,

## Background Information

PIK3C3(Phosphatidylinositol 3-kinase catalytic subunit type 3) is also named as VPS34 and belongs to the PI3/PI4-kinase family. It is a catalytic subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate which plays a key role in initiation and maturation of autophagosomes. It can form a dimer(PMID:20339072).

## Notable Publications

Author	Pubmed ID	Journal	Application
Haojie Zhang	36114802	Phytother Res	WB
Jiafeng Li	31572190	Front Pharmacol	WB
Qian Zuo	34509534	Cancer Lett	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

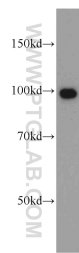
For technical support and original validation data for this product please contact:

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

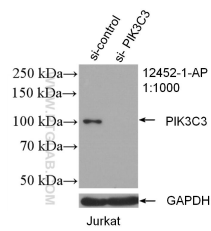
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

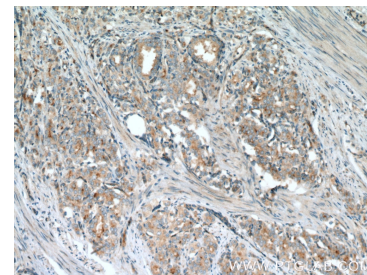
## Selected Validation Data



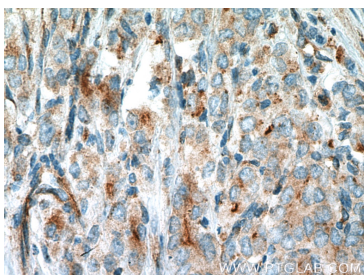
PC-3 cells were subjected to SDS PAGE followed by western blot with 12452-1-AP (VPS34 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



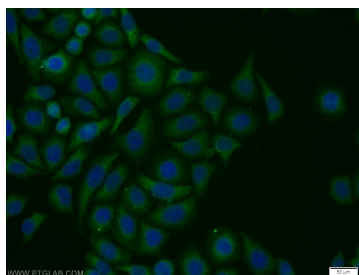
WB result of VPS34 (C terminal) antibody (12452-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-VPS34 (C terminal) transfected Jurkat cells.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 12452-1-AP (VPS34 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 12452-1-AP (VPS34 antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of PC-3 cells using 12452-1-AP (VPS34 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).