

For Research Use Only

# VPS34 (C terminal) Polyclonal antibody

Catalog Number: 12452-1-AP

Featured Product

62 Publications



## Basic Information

Catalog Number:

12452-1-AP

Concentration:

550 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3110

GenBank Accession Number:

BC033004

GeneID (NCBI):

5289

UNIPROT ID:

Q8NEB9

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/ICC 1:300-1:1200

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IF, IP, ColP

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:** 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/ICC:** 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

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

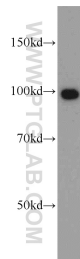
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

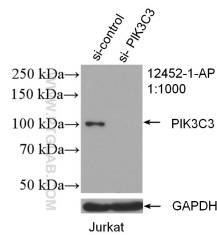
W: [ptgcn.com](http://ptgcn.com)

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

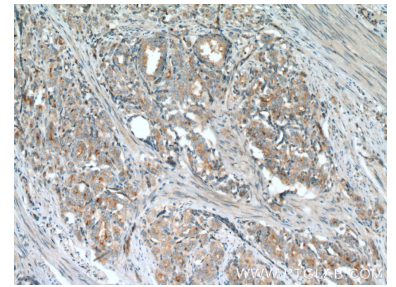
## Selected Validation Data



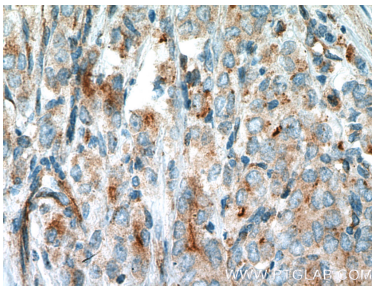
PC-3 cells were subjected to SDS PAGE followed by western blot with 12452-1-AP (VPS34 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



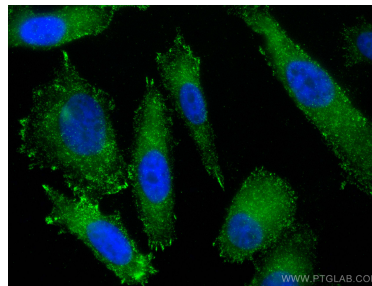
WB result of VPS34 (C terminal) antibody (12452-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-VPS34 (C terminal) transfected Jurkat cells.



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 (-20°C Ethanol) fixed PC-3 cells using VPS34 (C terminal) antibody (12452-1-AP) at dilution of 1:600 and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).