

For Research Use Only

# VPRBP Polyclonal antibody

Catalog Number: 11612-1-AP

Featured Product

42 Publications



## Basic Information

### Catalog Number:

11612-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2184

### GenBank Accession Number:

BC022792

### GeneID (NCBI):

9730

### UNIPROT ID:

Q9Y4B6

### Full Name:

Vpr (HIV-1) binding protein

### Calculated MW:

1506 aa, 169 kDa

### Observed MW:

169 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:1000

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, canine

**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:** DU 145 cells, HeLa cells, mouse testis tissue, PC-3 cells, HEK-293 cells, K-562 cells, HepG2 cells

**IP:** HeLa cells,

**IHC:** human prostate cancer tissue, mouse testis tissue

**IF/ICC:** HeLa cells,

## Background Information

VprBP was first identified as a protein that can interact with HIV-1 viral protein R (PMID: 11223251). It is a component of the CUL4A-RBX1-DDB1-VprBP/DCAF1 E3 ubiquitin-protein ligase complex that could interact with HIV-1 virus Vpr protein and HIV-2 virus Vpx protein (PMID: 18332868; 17314515; 18606781). VprBP is a 1,507-amino acid protein that contains conserved domains, including YXXY repeats, the Lis homology motif, and WD40 repeats. Through binding to Vpr, VprBP allows Vpr to modulate the catalytic activity of the CUL4-DDB1 complex, which in turn leads to the induction of G2 phase arrest in the virus-infected cells (PMID: 17630831). Recently it has been reported that VprBP is able to regulate the p53-induced transcription and apoptotic pathway (PMID: 22184063).

## Notable Publications

Author	Pubmed ID	Journal	Application
Bo-Tai Li	29156803	Oncotarget	WB, IHC
María Arroyo	36056023	Nat Commun	IP, WB, IF
N Max Schabla	34648572	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

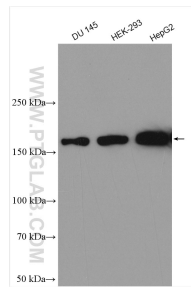
For technical support and original validation data for this product please contact:

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

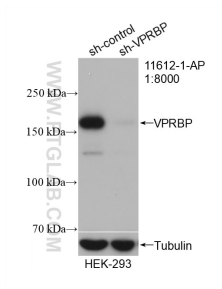
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

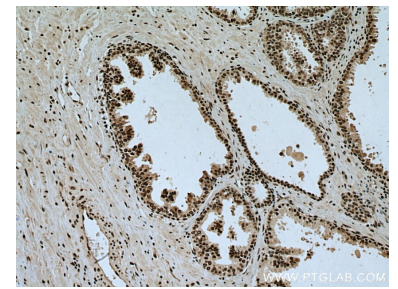
## Selected Validation Data



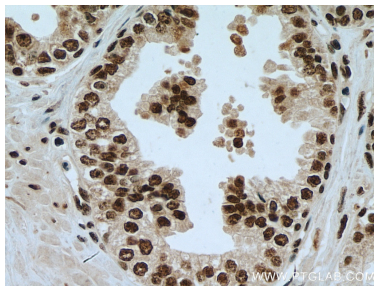
Various lysates were subjected to SDS PAGE followed by western blot with 11612-1-AP (VPRBP antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



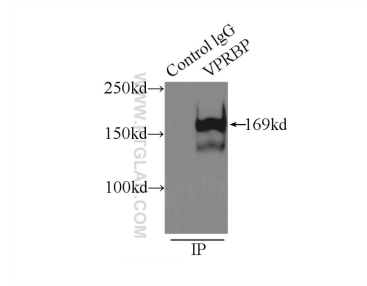
WB result of VPRBP antibody (11612-1-AP; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-VPRBP transfected HEK-293 cells.



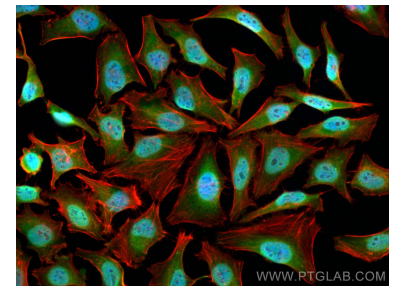
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 11612-1-AP (VPRBP antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



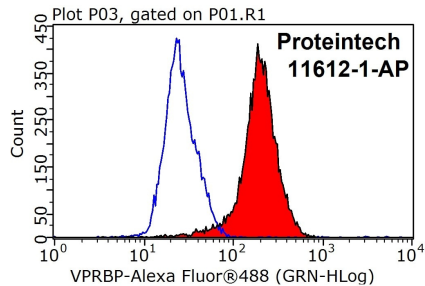
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 11612-1-AP (VPRBP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-VPRBP (IP:11612-1-AP, 3ug; Detection:11612-1-AP 1:1000) with HeLa cells lysate 3800ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using VPRBP antibody (11612-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



1X10<sup>6</sup> HeLa cells were stained with 0.2ug VPRBP antibody (11612-1-AP, red) and control antibody (blue). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000. Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100.