For Research Use Only

VPRBP Monoclonal antibody

Catalog Number:66392-1-Ig Featured Product 1 Publications

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Basic Information

Catalog Number:
66392-1-Ig

Size:
2500 μg/ml

Source:
Mouse

Isotype:
IgG2a

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:
Protein A purification

CloneNo.:
1A7A8

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:50-1:500
IF 1:400-1:1600

Applications

Tested Applications:
FC, IF/ICC,IF-P, IHC, WB, ELISA

Cited Applications:
WB

Species Specificity:
human

Cited Species:
human, 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 : HepG2 cells, HeLa cells, HEK-293 cells, K-562 cells, PC-3 cells, DU 145 cells

IHC : human breast cancer tissue,

IF : HepG2 cells, human breast cancer tissue

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
Nikhil B Ghate	37069142	Nat Commun	WB

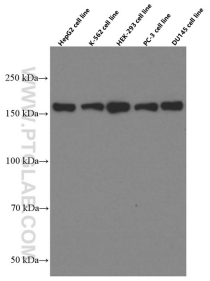
Storage

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

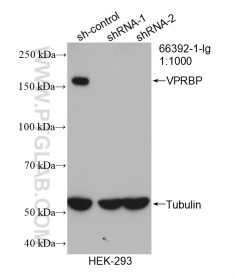
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

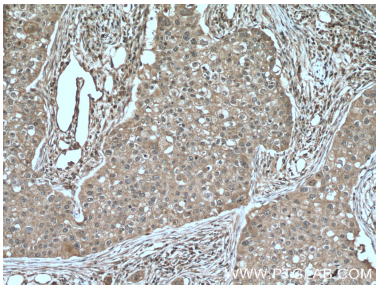
Selected Validation Data



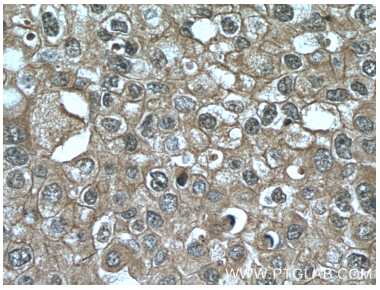
Various lysates were subjected to SDS PAGE followed by western blot with 66392-1-Ig (VPRBP antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



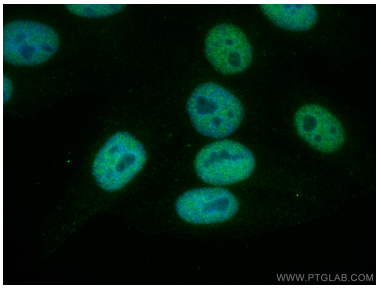
WB result of VPRBP antibody (66392-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-VPRBP transfected HEK-293 cells.



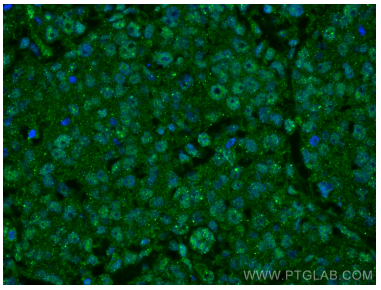
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66392-1-Ig (VPRBP antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



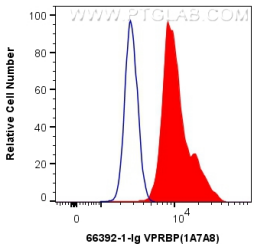
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66392-1-Ig (VPRBP antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using VPRBP antibody (66392-1-Ig, Clone: 1A7A8) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using VPRBP antibody (66392-1-Ig, Clone: 1A7A8) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10^6 K-562 cells were intracellularly stained with 0.4 ug Anti-Human VPRBP (66392-1-Ig, Clone:1A7A8) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2a Isotype Control (66360-2-Ig, Clone: K11A1B2A2) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).