

For Research Use Only

VPS72 Polyclonal antibody

Catalog Number: 15143-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number:

15143-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 247 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7424

GenBank Accession Number:

BC003151

GeneID (NCBI):

6944

UNIPROT ID:

Q15906

Full Name:

vacuolar protein sorting 72 homolog (S. cerevisiae)

Calculated MW:

41 kDa

Observed MW:

57 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:500-1:2000

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human

Positive Controls:

WB : HeLa cells, mouse skeletal muscle tissue, NIH/3T3 cells, A549 cells

IP : NIH/3T3 cells,

IHC : human breast hyperplasia tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

The mammalian TRRAP/TIP60-containing histone acetyltransferase (HAT) complex, which exists in Drosophila melanogaster and mammalian cells, is a complex that is responsible for various cellular processes, including DNA repair, transcriptional activation and apoptosis. Vacuolar protein sorting-associated protein 72 homolog (VPS72), also known as VPS72 or Transcription factor-like 1, is a 364 amino acid subunit of the TRRAP/TIP60 HAT complex. VPS72 has also been identified as a subunit of a novel complex containing SNF2-related helicase SRCAP (SWI2/SNF2-related CBP activator protein). This SRCAP-containing complex is very similar to the S. cerevisiae SWR1 chromatin remodeling complex. The involvement of VPS72 in these complexes has suggested that VPS72 plays multiple roles in chromatin modification and remodeling in cells. VPS72 localizes to the nucleus and is phosphorylated upon DNA damage, most likely by ATM or ATR.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|---------------|-------------|
| Sophie Barral | 28366643 | Mol Cell | |
| Jun Cao | 39135633 | Int J Gen Med | WB |
| Jiali Yu | 38331872 | Cell Discov | 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

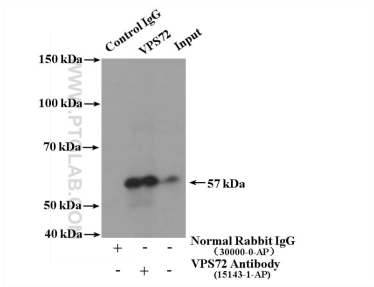
For technical support and original validation data for this product please contact:

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

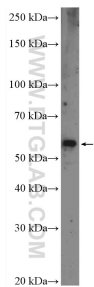
E: proteintech@ptglab.com
W: ptglab.com

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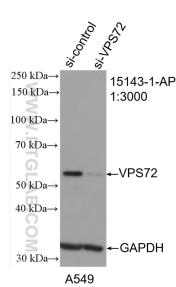
Selected Validation Data



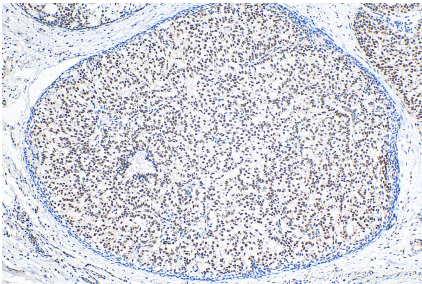
IP result of anti-VPS72 (IP:15143-1-AP, 4ug; Detection:15143-1-AP 1:500) with NIH/3T3 cells lysate 4000 ug.



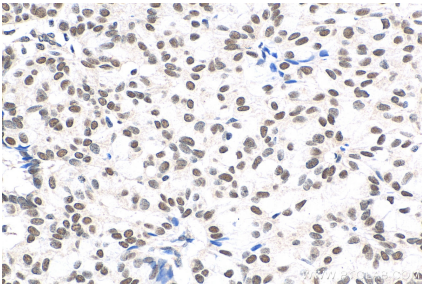
HeLa cells were subjected to SDS PAGE followed by western blot with 15143-1-AP (VPS72 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



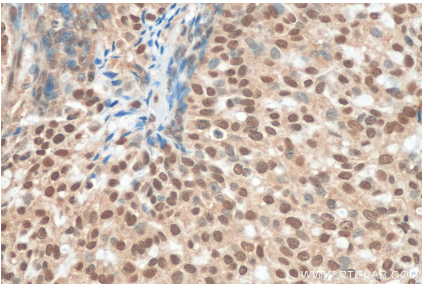
WB result of VPS72 antibody (15143-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-VPS72 transfected A549 cells.



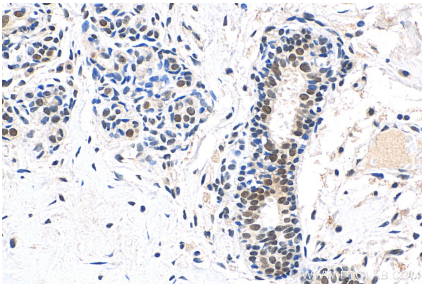
Immunohistochemical analysis of paraffin-embedded human breast hyperplasia tissue slide using 15143-1-AP (VPS72 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast hyperplasia tissue slide using 15143-1-AP (VPS72 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast hyperplasia tissue slide using 15143-1-AP (VPS72 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 human breast hyperplasia tissue slide using 15143-1-AP (VPS72 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).