

For Research Use Only

# VPS33B Polyclonal antibody

Catalog Number: 12195-1-AP

Featured Product

12 Publications



## Basic Information

### Catalog Number:

12195-1-AP

### Size:

150ul, Concentration: 300 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2833

### GenBank Accession Number:

BC016445

### GeneID (NCBI):

26276

### UNIPROT ID:

Q9H267

### Full Name:

vacuolar protein sorting 33 homolog B (yeast)

### Calculated MW:

617 aa, 71 kDa

### Observed MW:

65-71 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP, ChIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, zebrafish

**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** : HEK-293 cells, mouse skeletal muscle tissue, HeLa cells, mouse testis tissue, L02 cells

**IHC** : human colon cancer tissue,

**IF/ICC** : MCF-7 cells,

## Background Information

VPS33B, a homolog of yeast class C vacuolar protein sorting (vps) protein Vps33p, belongs to the STXBP/unc-18/SEC1 family. It may play a role in vesicle-mediated protein trafficking to lysosomal compartments and in membrane docking/fusion reactions of late endosomes/lysosomes. VPS33B mediates phagolysosomal fusion in macrophages (PMID: 18474358). Defects in VPS33B account for most cases of arthrogryposis-renal dysfunction-cholestasis (ARC) syndrome, which is a multisystem disorder associated with abnormalities in polarized liver and kidney cells (PMID: 20190753).

## Notable Publications

Author	Pubmed ID	Journal	Application
Rik van der Kant	26463206	J Biol Chem	WB, IF
Yiyu Chen	31125123	Int J Cancer	WB, IHC
Yu Liu	32385361	Sci Rep	IF

## 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

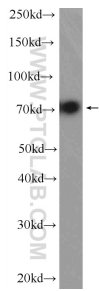
For technical support and original validation data for this product please contact:

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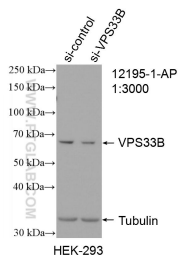
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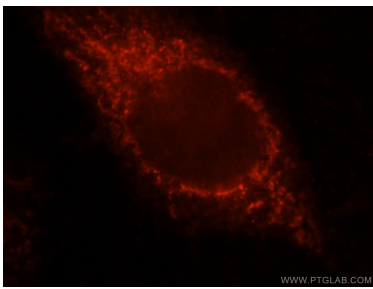
Selected Validation Data



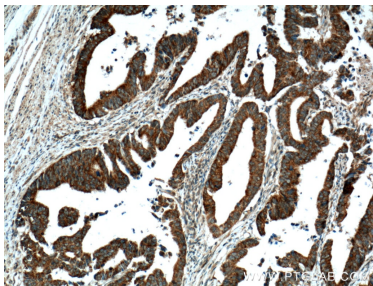
HEK-293 cells were subjected to SDS PAGE followed by western blot with 12195-1-AP (VPS33B Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



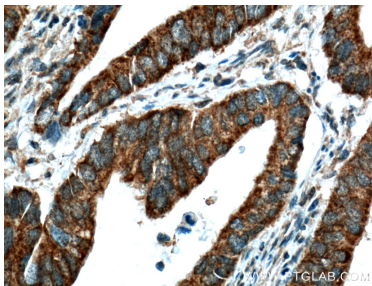
WB result of VPS33B antibody (12195-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-VPS33B transfected HEK-293 cells.



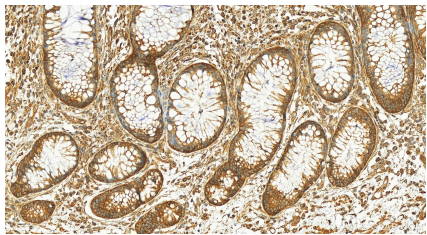
Immunofluorescent analysis of MCF-7 cells, using VPS33B antibody 12195-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 12195-1-AP (VPS33B 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 colon cancer tissue slide using 12195-1-AP (VPS33B 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 colon cancer tissue slide using 12195-1-AP (VPS33B antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).