

## VPS33B Polyclonal antibody

Catalog Number: 12195-1-AP

Featured Product

12 Publications

## Basic Information

<b>Catalog Number:</b> 12195-1-AP	<b>GenBank Accession Number:</b> BC016445	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 300 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 26276	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500 IF 1:10-1:100
<b>Source:</b> Rabbit	<b>Full Name:</b> vacuolar protein sorting 33 homolog B (yeast)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 617 aa, 71 kDa	
<b>Immunogen Catalog Number:</b> AG2833	<b>Observed MW:</b> 71 kDa	

## Applications

## Tested Applications:

IF, IHC, WB, ELISA

## Cited Applications:

ChIP, ColP, IF, IHC, IP, WB

## 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, human brain tissue, human kidney tissue, human lung tissue, human medulloblastoma tissue, human ovary tissue, human placenta tissue, human spleen tissue, human testis tissue

**IF**: 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

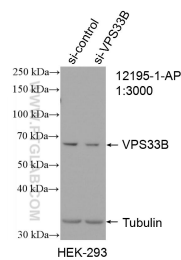
For technical support and original validation data for this product please contact:

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

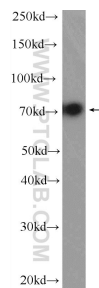
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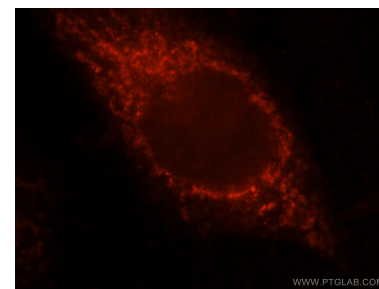
## Selected Validation Data



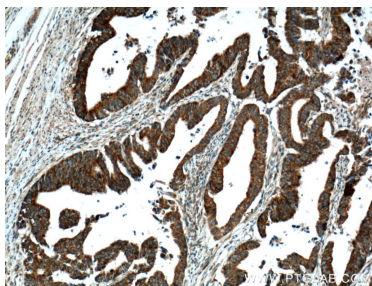
WB result of VPS33B antibody (12195-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-VPS33B transfected HEK-293 cells.



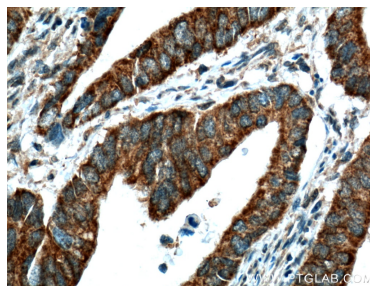
HEK-293 cells were subjected to SDS PAGE followed by western blot with 12195-1-AP (VPS33B Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).