

For Research Use Only

# USP33 Polyclonal antibody

Catalog Number: 20445-1-AP

Featured Product

17 Publications



## Basic Information

### Catalog Number:

20445-1-AP

### Concentration:

800 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG14268

### GenBank Accession Number:

BC016663

### GeneID (NCBI):

23032

### UNIPROT ID:

Q8TEY7

### Full Name:

ubiquitin specific peptidase 33

### Calculated MW:

942 aa, 107 kDa

### Observed MW:

103 kDa, 107 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:6000

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

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**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, HeLa cells, mouse brain tissue

IP : HEK-293 cells,

IHC : human prostate cancer tissue, human kidney tissue

IF/ICC : U2OS cells,

## Background Information

USP33(Ubiquitin carboxyl-terminal hydrolase 33) is also named as KIAA1097, VDU1 and belongs to the peptidase C19 family. This protein, originally identified as a von Hippel-Lindau tumor suppressor (VHL) protein-interacting deubiquitinating enzyme, binds to the Robo1 receptor, and that USP33 is required for Slit responsiveness in breast cancer cells(PMID:19706539). The localization of USP33 is broadly confined to the secretory pathway, with all variants localizing to endoplasmic reticulum-associated structures(PMID:21801292). It has 3 isoforms produced by alternative splicing. This antibody is specific to USP33.

## Notable Publications

| Author      | Pubmed ID | Journal       | Application |
|-------------|-----------|---------------|-------------|
| Wenyng Gao  | 34630422  | Front Immunol | WB          |
| Yukang Yuan | 34779558  | EMBO Rep      | WB,IP       |
| Qiao Cheng  | 28506875  | Exp Cell Res  | WB          |

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

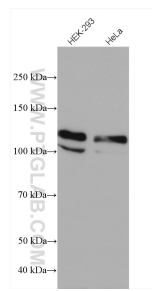
T: 4006900926

E: Proteintech-CN@ptglab.com

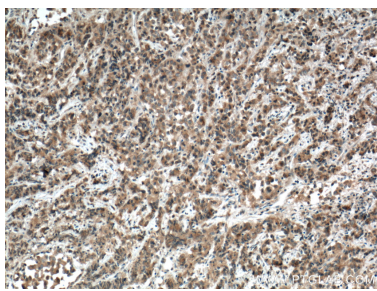
W: ptgcn.com

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

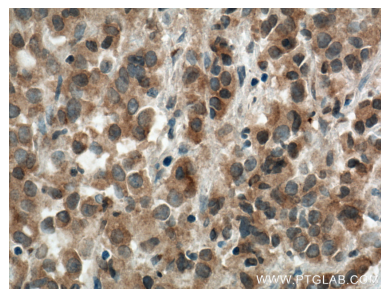
Selected Validation Data



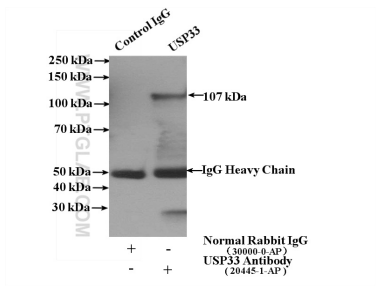
Various lysates were subjected to SDS PAGE followed by western blot with 20445-1-AP (USP33 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



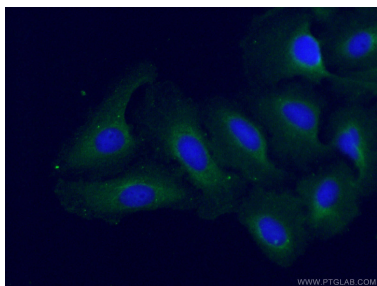
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 20445-1-AP (USP33 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 20445-1-AP (USP33 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-USP33 (IP:20445-1-AP, 4ug; Detection:20445-1-AP 1:300) with HEK-293 cells lysate 2400ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using 20445-1-AP (USP33 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).