

For Research Use Only

# p115, USO1 Polyclonal antibody

Catalog Number: 13509-1-AP

Featured Product

19 Publications



## Basic Information

### Catalog Number:

13509-1-AP

### Size:

550 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4431

### GenBank Accession Number:

BC032654

### GeneID (NCBI):

8615

### UNIPROT ID:

O60763

### Full Name:

USO1 homolog, vesicle docking protein (yeast)

### Calculated MW:

962 aa, 108 kDa

### Observed MW:

115 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

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

IHC 1:50-1:500

IF 1:500-1:2000

## Applications

### Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

### Cited Applications:

IF, WB

### Species Specificity:

human, mouse, rat

### 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**: HEK-293 cells, mouse testis tissue, mouse thymus tissue, HeLa cells, human brain tissue, SH-SY5Y cells, HepG2 cells

**IP**: mouse brain tissue,

**IHC**: human gliomas tissue,

**IF**: HeLa cells,

## Background Information

p115, also known as USO1, TAP (transcytosis-associated protein) or VDP (vesicle docking protein) is a general vesicular transport factor and plays an important role at different steps of vesicular transport. It is a 962-residue peripheral membrane protein which recycles between the cytosol and the Golgi apparatus during interphase (PMID: 9478999). p115 forms stable homodimers (PMID: 19247479). Rab1 recruits p115 to coat protein complex II (COPII) vesicles during budding from the endoplasmic reticulum, where p115 interacts directly with a select set of SNARE proteins (PMID: 10903204). p115 is required for intra-Golgi transport, and also functions in endoplasmic reticulum to Golgi trafficking, Golgi biogenesis and exocytotic transport (PMID: 19247479).

## Notable Publications

Author	Pubmed ID	Journal	Application
Mohsan Saeed	32997711	PLoS Pathog	WB
Guillermo Arango Duque	34580108	J Immunol	IF
Jing Wang	29025970	J Cell Sci	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

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

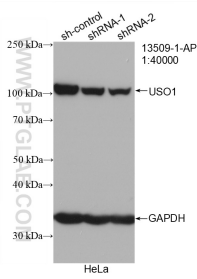
T: 4006900926

E: Proteintech-CN@ptglab.com

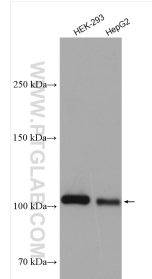
W: ptgcn.com

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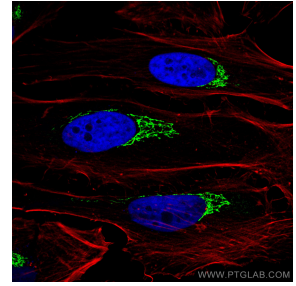
## Selected Validation Data



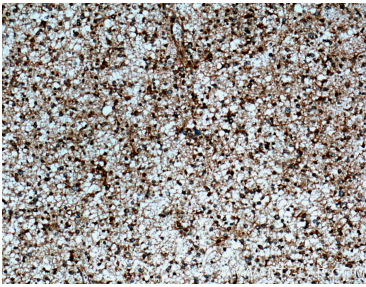
WB result of p115, USO1 antibody (13509-1-AP; 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-p115, USO1 transfected HeLa cells.



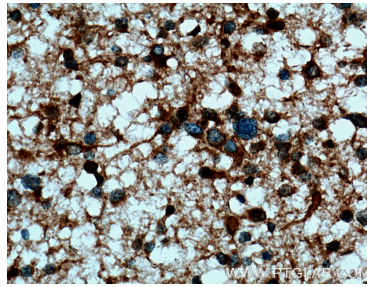
Various lysates were subjected to SDS PAGE followed by western blot with 13509-1-AP (p115, USO1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



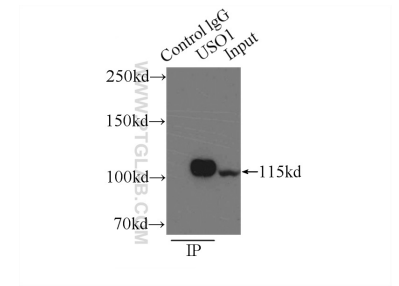
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using p115, USO1 antibody (13509-1-AP) at dilution of 1:1000 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 13509-1-AP (p115, USO1 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 gliomas tissue slide using 13509-1-AP (p115, USO1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-p115, USO1 (IP:13509-1-AP, 3ug; Detection:13509-1-AP 1:1500) with mouse brain tissue lysate 7000ug.