

For Research Use Only

# p115, USO1 Monoclonal antibody, PBS Only



Catalog Number: 68100-1-PBS

Featured Product

## Basic Information

<b>Catalog Number:</b> 68100-1-PBS	<b>GenBank Accession Number:</b> BC032654	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8615	<b>CloneNo.:</b> 3B7D8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O60763	
<b>Isotype:</b> IgG2b	<b>Full Name:</b> USO1 homolog, vesicle docking protein (yeast)	
<b>Immunogen Catalog Number:</b> AG5543	<b>Calculated MW:</b> 962 aa, 108 kDa	
	<b>Observed MW:</b> 108 kDa	

## Applications

**Tested Applications:**  
WB, IF, IHC, Indirect ELISA

**Species Specificity:**  
Human, Mouse, Rat

## 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).

## Storage

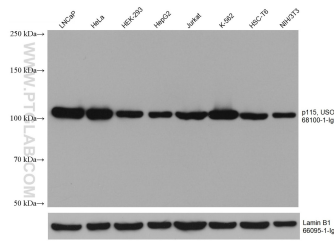
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

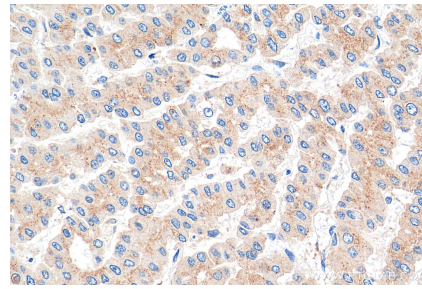
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

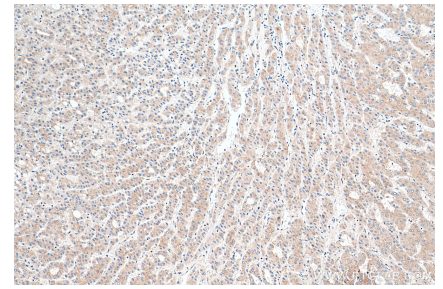
## Selected Validation Data



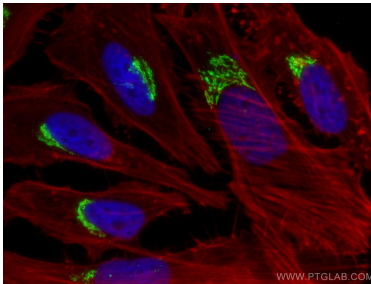
Various lysates were subjected to SDS PAGE followed by western blot with 68100-1-Ig (p115, USO1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Lamin B1 Monoclonal antibody (66095-1-Ig) as loading control. This data was developed using the same antibody clone with 68100-1-PBS in a different storage buffer formulation.



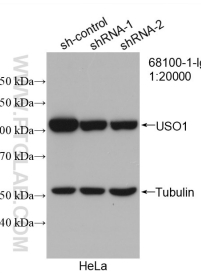
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 68100-1-Ig (p115, USO1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68100-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 68100-1-Ig (p115, USO1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68100-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using p115, USO1 antibody (68100-1-Ig, Clone: 3B7D8) at dilution of 1:500 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 68100-1-PBS in a different storage buffer formulation.



WB result of p115, USO1 antibody (68100-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-p115, USO1 transfected HeLa cells. This data was developed using the same antibody clone with 68100-1-PBS in a different storage buffer formulation.