

p115, USO1 Polyclonal Antibody

Catalog number: 13509-1-AP

Size: 29 µg/150 µl

Source: Rabbit

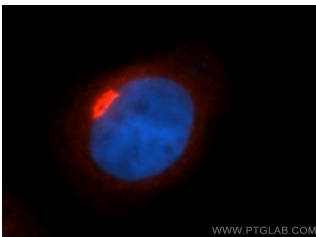
Isotype: IgG

Synonyms:

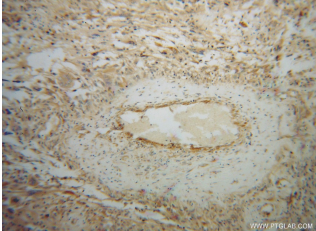
USO1; P115, Protein USO1

homolog, TAP, USO1, VDP,

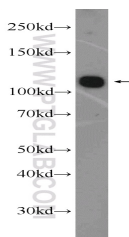
Vesicle docking protein



Immunofluorescent analysis of HeLa cells, using USO1 antibody 13509-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunohistochemical of paraffin-embedded human gliomas using 13509-1-AP (p115, USO1 antibody) at dilution of 1:100 (under 10x lens)



HepG2 cells were subjected to SDS PAGE followed by western blot with 13509-1-AP (p115, USO1 Antibody) at dilution of 1:1500

Background

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).

Applications

Tested applications:	ELISA, IHC, IF, IP, WB
Cited applications:	IF, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Mouse
Calculated p115, USO1 MW:	961aa, 115kd
Observed p115, USO1 MW:	115kd
Positive WB detected in	HepG2 cells, HEK-293 cells, human brain tissue, mouse testis tissue, mouse thymus tissue, SH-SY5Y cells
Positive IP detected in	Mouse brain tissue
Positive IHC detected in	Human gliomas tissue
Positive IF detected in	Hela cells
Recommended dilution:	WB: 1:750 - 1:3000 IP: 1:750 - 1:3000 IHC: 1:50 - 1:200 IF: 1:25 - 1:100

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag4431
GenBank accession number:	BC032654
Gene ID (NCBI):	8615
Full name:	USO1 homolog, vesicle docking protein (yeast)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.