

USO1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14035b

Specification

USO1 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	O60763
Other Accession	NP_003706.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	932-960

USO1 Antibody (C-term) - Additional Information

Gene ID 8615

Other Names

General vesicular transport factor p115, Protein USO1 homolog, Transcytosis-associated protein, TAP, Vesicle-docking protein, USO1, VDP

Target/Specificity

This USO1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 932-960 amino acids from the C-terminal region of human USO1.

Dilution

WB~~1:1000

IHC-P~~1:10~50

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

USO1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

USO1 Antibody (C-term) - Protein Information

Name USO1

Synonyms VDP

Function General vesicular transport factor required for intercisternal transport in the Golgi stack; it is required for transcytotic fusion and/or subsequent binding of the vesicles to the target membrane. May well act as a vesicular anchor by interacting with the target membrane and holding the vesicular and target membranes in proximity.

Cellular Location

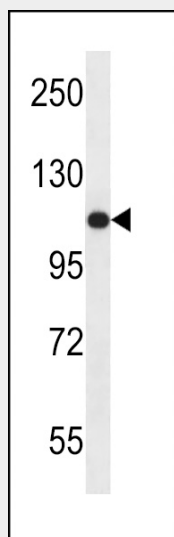
Cytoplasm, cytosol. Golgi apparatus membrane; Peripheral membrane protein. Note=Recycles between the cytosol and the Golgi apparatus during interphase. During interphase, the phosphorylated form is found exclusively in cytosol; the unphosphorylated form is associated with Golgi apparatus membranes

USO1 Antibody (C-term) - Protocols

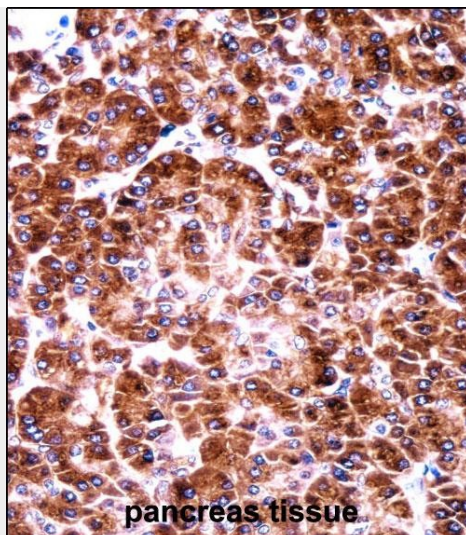
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

USO1 Antibody (C-term) - Images



USO1 Antibody (C-term) (Cat. #AP14035b) western blot analysis in ZO1-75-1 cell line lysates (35ug/lane). This demonstrates the ZO1 antibody detected the ZO1 protein (arrow).



USO1 Antibody (C-term) (AP14035b) immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of USO1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

USO1 Antibody (C-term) - Background

The protein encoded by this gene is a peripheral membrane protein which recycles between the cytosol and the Golgi apparatus during interphase. It is regulated by phosphorylation: dephosphorylated protein associates with the Golgi membrane and dissociates from the membrane upon phosphorylation. Ras-associated protein 1 recruits this protein to coat protein complex II (COPII) vesicles during budding from the endoplasmic reticulum, where it interacts with a set of COPII vesicle-associated SNAREs to form a cis-SNARE complex that promotes targeting to the Golgi apparatus. Transport from the ER to the cis/medial Golgi compartments requires the action of this gene product, GM130 and giantin in a sequential manner.

USO1 Antibody (C-term) - References

Striegl, H., et al. PLoS ONE 5 (2), E8991 (2010) :
Merk, M., et al. J. Immunol. 182(11):6896-6906(2009)
Mukherjee, S., et al. J. Biol. Chem. 284(3):1709-1717(2009)
Striegl, H., et al. PLoS ONE 4 (2), E4656 (2009) :
Guo, Y., et al. Mol. Biol. Cell 19(7):2830-2843(2008)

USO1 Antibody (C-term) - Citations

- [Lentivirus-mediated silencing of USO1 inhibits cell proliferation and migration of human colon cancer cells.](#)