

**USO1 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP14035b****Specification**

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**USO1 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [O60763](#)**USO1 Antibody (C-term) Blocking peptide - 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**

The synthetic peptide sequence used to generate the antibody AP14035b was selected from the C-term region of USO1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**USO1 Antibody (C-term) Blocking peptide - 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) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **USO1 Antibody (C-term) Blocking peptide - Images**

### **USO1 Antibody (C-term) Blocking peptide - 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 an 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) Blocking peptide - 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)