
Product Name: KD-Validated USO1 Vesicle Transport Factor Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00841

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 107.9kDa

Antigen Information

Gene Name	USO1 USO1; USO1 Vesicle Transport Factor; TAP; VDP; P115; General Vesicular Transport Factor P115; Transcytosis Associated Protein; USO1 Homolog, Vesicle Docking Protein (Yeast);
Alternative Names	USO1 Vesicle Docking Protein Homolog (Yeast); USO1 Vesicle Docking Protein Homolog; Transcytosis-Associated Protein; Vesicle Docking Protein P115; Vesicle Docking Protein; Vesicle-Docking Protein; Protein USO1 Homolog
Gene ID	8615.0
SwissProt ID	O60763
Immunogen	A synthesized peptide derived from human USO1

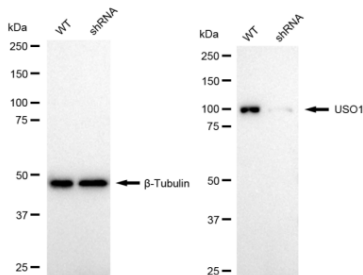
Background

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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]

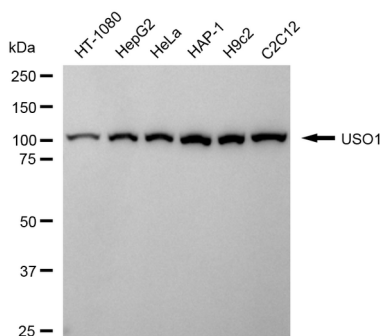
Research Area

Signal Transduction

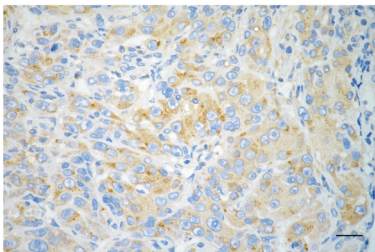
Image Data



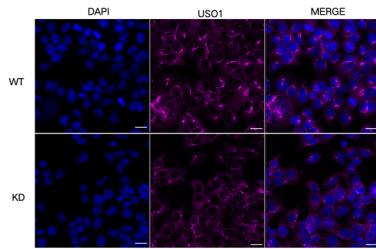
Western blotting analysis using USO1 antibody (KVA00841). USO1 expression in wild type (WT) and USO1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with USO1 antibody (KVA00841, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



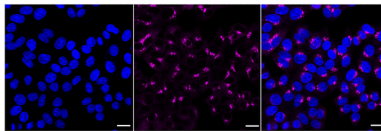
Western blotting analysis using USO1 antibody (KVA00841). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with USO1 antibody (KVA00841, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



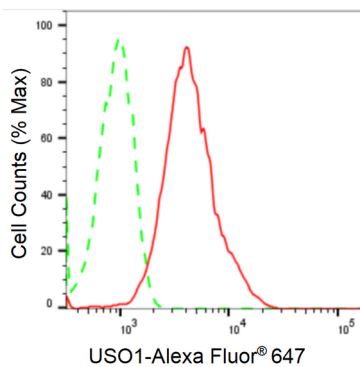
Immunohistochemistry was performed on paraffin-embedded human hepatocarcinoma using USO1 antibody (KVA00841, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells using USO1 antibody (KVA00841, 1:1,000), Top panel: wild-type (WT); Bottom panel: USO1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; USO1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 μm.



Immunocytochemical staining of HepG2 cells with USO1 antibody (KVA00841, 1:1,000). Nuclei were stained blue with DAPI; USO1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 μm.



Flow cytometric analysis of USO1 expression in HepG2 cells using USO1 antibody (KVA00841, 1:2,000). Green, isotype control; red, USO1.