Product Name: KD-Validated VPS41 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00312
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
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
Molecular Weight	Calculated MW: 98.6kDa

Antigen Information

Gene Name	VPS41
Alternative Names	VPS41; VPS41 Subunit Of HOPS Complex; HVSP41; Vacuolar Protein Sorting-Associated Protein 41 Homolog; VPS41, HOPS Complex Subunit; S53; Vacuolar Protein Sorting 41 Homolog (S. Cerevisiae); Vacuolar Protein Sorting 41 (Yeast Homolog); Vacuolar Protein Sorting 41 (Yeast); Vacuolar Protein Sorting 41 Homolog; Vacuolar Assembly Protein 41; HVps41p; HVPS41; SCAR29
Gene ID	27072.0
SwissProt ID	P49754
Immunogen	A synthesized peptide derived from human VPS41

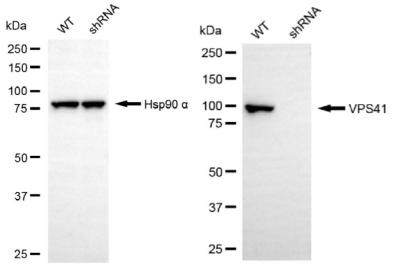
Background

Vesicle mediated protein sorting plays an important role in segregation of intracellular molecules into distinct organelles. Genetic studies in yeast have identified more than 40 vacuolar protein sorting (VPS) genes involved in vesicle transport to vacuoles. This gene encodes the human ortholog of yeast Vps41 protein which is also conserved in Drosophila, tomato, and Arabidopsis. Expression studies in yeast and human indicate that this protein may be involved in the formation and fusion of transport vesicles from the Golgi. Several transcript variants encoding different isoforms have been described for this gene, however, the full-length nature of not all is known. [provided by RefSeq, Jul 2008]

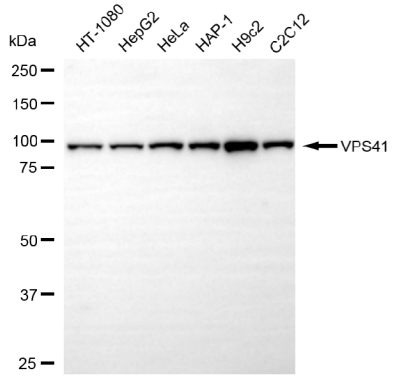
Research Area

Signal Transduction

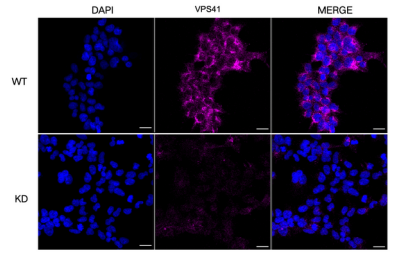
Image Data



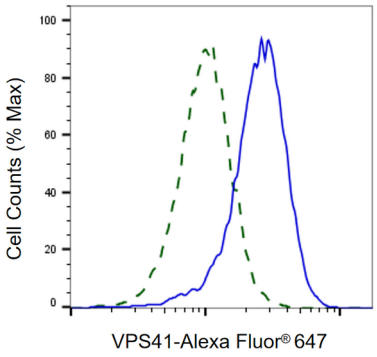
Western blotting analysis using VPS41 antibody (KVAb00312). VPS41 expression in wild-type (WT) and VPS41 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with VPS41 antibody (KVAb00312, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



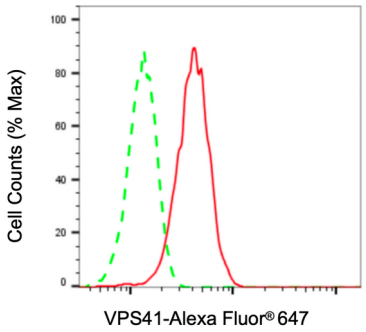
Western blotting analysis using VPS41 antibody (KVAb00312). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with VPS41 antibody (KVAb00312, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using VPS41 antibody (KVAb00312, 1:1,000), Top panel: wild-type (WT); Bottom panal: VPS41 shRNA knockdown (KD). Nuclei were stained blue with DAPI; VPS41 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Validation of VPS41 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with VPS41 antibody (KVAb00312, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of VPS41 expression in H9c2 cells using VPS41 antibody (KVAb00312,1:2,000). Green, isotype control; red, VPS41.