

Product Name: KD-Validated RAB7 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00967**

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: 23.5kDa

Antigen Information

Gene Name	RAB7A RAB7A, Member RAS Oncogene Family; RAB7; RAB7, Member RAS Oncogene Family; Ras-
Alternative Names	Related Protein Rab-7a; CMT2B; Charcot-Marie-Tooth Neuropathy 2B; Ras-Associated Protein RAB7; EC 3.6.5.2; PRO2706
Gene ID	7879.0
SwissProt ID	P51149
Immunogen	A synthesized peptide derived from human RAB7

Background

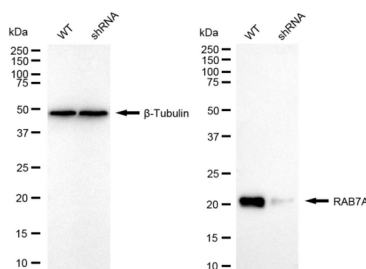
RAB family members are small, RAS-related GTP-binding proteins that are important regulators of vesicular transport. Each RAB protein targets multiple proteins that act in exocytic / endocytic pathways. This gene encodes a RAB family member that

regulates vesicle traffic in the late endosomes and also from late endosomes to lysosomes. This encoded protein is also involved in the cellular vacuolation of the VacA cytotoxin of *Helicobacter pylori*. Mutations at highly conserved amino acid residues in this gene have caused some forms of Charcot-Marie-Tooth (CMT) type 2 neuropathies. [provided by RefSeq, Jul 2008]

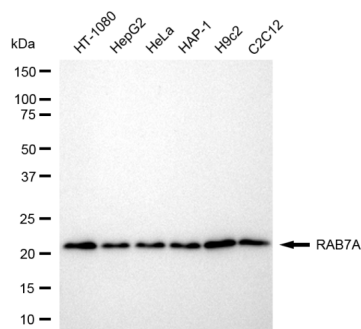
Research Area

Tags & Cell Markers, Signal Transduction

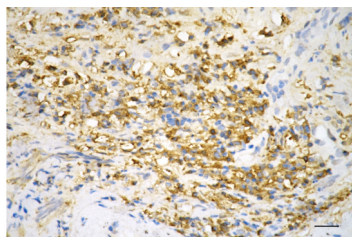
Image Data



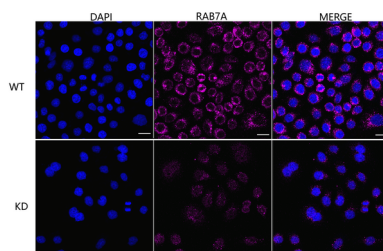
Western blotting analysis using RAB7A antibody (KVA00967). RAB7A expression in wild type (WT) and RAB7A shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with RAB7A antibody (KVA00967, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



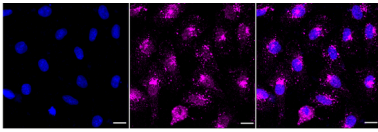
Western blotting analysis using RAB7A antibody (KVA00967). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with RAB7A antibody (KVA00967, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



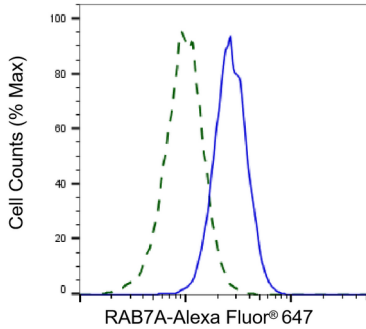
Immunohistochemistry was performed on paraffin-embedded human bladder carcinoma using anti-RAB7A antibody (KVA00967, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



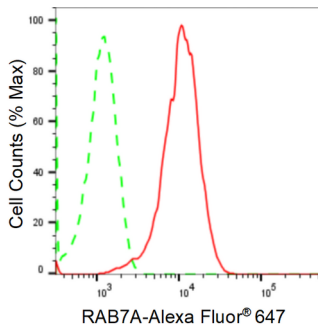
Immunocytochemical staining of HeLa cells using RAB7A antibody (KVA00967, 1:1,000). Top panel: wild-type (WT); Bottom panel: RAB7A shRNA knockdown (KD). Nuclei were stained blue with DAPI; RAB7A was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of H9c2 cells with RAB7A antibody (KVA00967, 1:1,000). Nuclei were stained blue with DAPI; RAB7A was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 μ m.



Validation of RAB7A knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with RAB7A antibody (KVA00967, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of RAB7A expression in H9c2 cells using RAB7A antibody (KVA00967, 1:2,000). Green, isotype control; red, RAB7A.