

Product Name: KD-Validated Rab4 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVAb00972**

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: 24.4kDa

Antigen Information

Gene Name	RAB4A
Alternative Names	RAB4A, Member RAS Oncogene Family; HRES-1/RAB4; RAB4; Ras-Related Protein Rab-4A; HTLV-1 Related Endogenous Sequence; EC 3.6.5.2; HRES-1; HRES1
Gene ID	5867.0
SwissProt ID	P20338
Immunogen	A synthesized peptide derived from human Rab4

Background

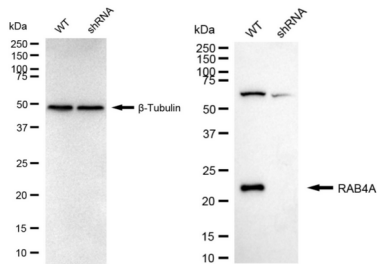
This gene is a member of the largest group in the Ras superfamily of small GTPases, which regulate membrane trafficking. The encoded protein is associated with early endosomes and is involved in their sorting and recycling. The protein also plays a role in regulating the recycling of receptors from endosomes to the plasma membrane. Alternatively spliced transcript variants have

been observed for this gene. [provided by RefSeq, Dec 2012]

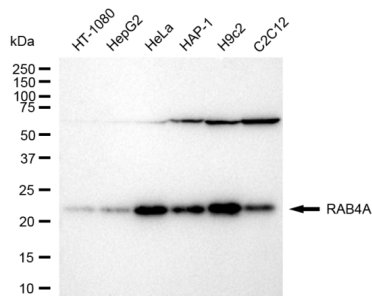
Research Area

Tags & Cell Markers, Signal Transduction, Neuroscience, Cancer

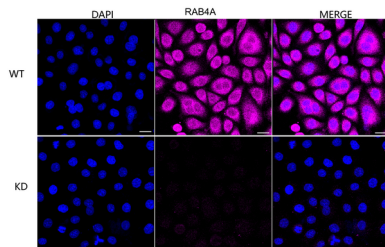
Image Data



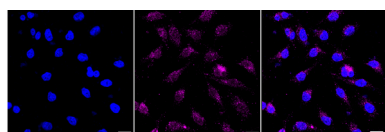
Western blotting analysis using RAB4A antibody (KVA00972). RAB4A expression in wild type (WT) and RAB4A shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with RAB4A antibody (KVA00972, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



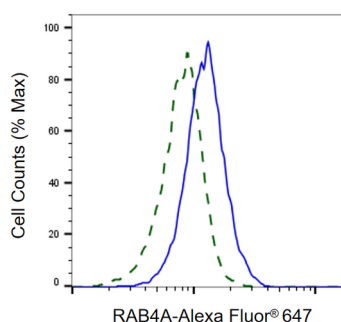
Western blotting analysis using RAB4A antibody (KVA00972). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with RAB4A antibody (KVA00972, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using RAB4A antibody (KVA00972, 1:1,000). Top panel: wild-type (WT); Bottom panel: Adiponectin receptor 1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; RAB4A was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HeLa cells with RAB4A antibody (KVA00972, 1:1,000). Nuclei were stained blue with DAPI; RAB4A was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of RAB4A knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with RAB4A antibody (KVA00972, 1:2,000) and analyzed using BD flow cytometer.