
Product Name: VPS4A Rabbit Monoclonal Antibody**Catalog #: AMRe02769**

For research use only.

Summary

Description	Recombinant rabbit monoclonal antibody
Host	Rabbit
Application	WB,IHC,ICC/IF
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Concentration	0.55mg/ml. The concentration of this product may be batch-dependent.
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% protective protein
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:1000,IHC 1:50-1:100,ICC/IF 1:50-1:200
Molecular Weight	Calculated MW: 49 kDa; Observed MW: 49 kDa

Antigen Information

Gene Name	VPS4A
Alternative Names	vacuolar protein sorting 4 homolog A; SKD1; SKD2; VPS4; SKD1A; VPS4-1
Gene ID	27183
SwissProt ID	Q9UN37
Immunogen	A synthetic peptide of human VPS4a

Background

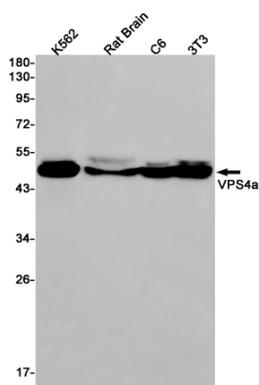
Involved in late steps of the endosomal multivesicular bodies (MVB) pathway. Recognizes membrane-associated ESCRT-III assemblies and catalyzes their disassembly, possibly in combination with membrane fission. Redistributes the ESCRT-III

components to the cytoplasm for further rounds of MVB sorting. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. In conjunction with the ESCRT machinery also appears to function in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis and enveloped virus budding (HIV-1 and other lentiviruses). Involved in cytokinesis: retained at the midbody by ZFYVE19/ANCHR and CHMP4C until abscission checkpoint signaling is terminated at late cytokinesis. It is then released following dephosphorylation of CHMP4C, leading to abscission (PubMed:24814515). VPS4A/B are required for the exosomal release of SDCBP, CD63 and syndecan (PubMed:22660413).

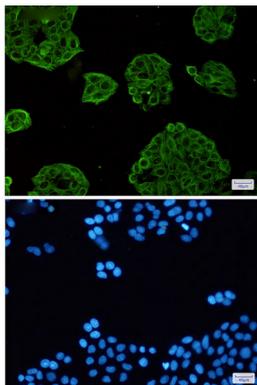
Research Area

Cell Biology

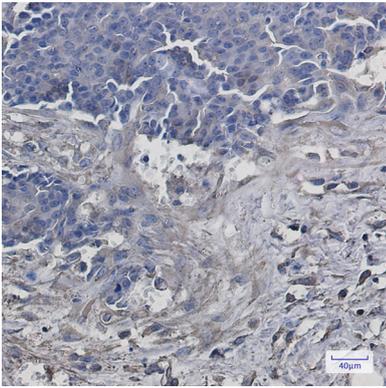
Image Data



Western blot analysis of VPS4a in K562, rat Brain, C6, 3T3 lysates using VPS4A antibody.



Immunocytochemistry analysis of VPS4a(green) in HeLa using VPS4a antibody, and DAPI(blue)



Immunohistochemistry analysis of paraffin-embedded Human breast cancer using VPS4a antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.