VPS4A Rabbit pAb

Catalog No	YP-Ab-18909
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB
Gene Name	VPS4A VPS4
Protein Name	Vacuolar protein sorting-associated protein 4A (Protein SKD2) (VPS4-1) (hVPS4)
Immunogen	Synthesized peptide derived from human VPS4A. AA range:400-437
Specificity	This antibody detects endogenous levels of VPS4A at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	
Calculated Molecular Weight	48kD
Cell Pathway	Late endosome membrane ; Peripheral membrane protein . Midbody . Cytoplasm, cytoskeleton, spindle . Membrane-associated in the prevacuolar endosomal compartment. Localizes to the midbody of dividing cells, interaction with ZFYVE19/ANCHR mediates retention at midbody (PubMed:24814515). Localized in two distinct rings on either side of the Flemming body. .
Tissue Specificity	Ubiquitously expressed.
Function	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. It is required for proper accomplishment of various processes including the regulation of endosome size, primary cilium organization, mitotic spindle organization, chromosome

	segregation, and nuclear envelope sealing and spindle disassembly during anaphase . 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 . VPS4A/B are required for the exosomal release of SDCBP, CD63 and syndecan . Critical for normal erythroblast cytokinesis and correct erythropoiesis . ; (Microbial infection) 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).
Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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