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VPS4A antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI13710

Specification

VPS4A antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	Q9UN37
Other Accession	NM_013245, NP_037377
Reactivity	**Human, Mouse, Rat, Rabbit, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**49kDa KDa**

VPS4A antibody - N-terminal region - Additional Information

Gene ID 27183

Alias Symbol	**FLJ22197, SKD1, SKD2, VPS4, VPS4-1, SKD1A**

Other Names
Vacuolar protein sorting-associated protein 4A, 3.6.4.6, Protein SKD2, VPS4-1, hVPS4, VPS4A {ECO:0000312|EMBL:AAG01470.1}

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-VPS4A antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
VPS4A antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

VPS4A antibody - N-terminal region - Protein Information

Name VPS4A {ECO:0000312|EMBL:AAG01470.1}

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 (PubMed:33186545). 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). Critical for normal erythroblast cytokinesis and correct erythropoiesis (PubMed:33186543).

Cellular Location
Late endosome membrane {ECO:0000250|UniProtKB:Q8VEJ9}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q8VEJ9}. Midbody Cytoplasm, cytoskeleton, spindle Note=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

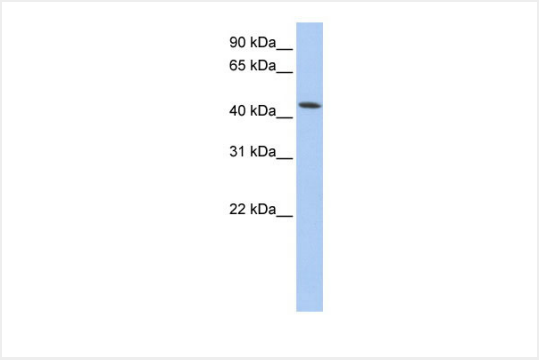
Tissue Location
Ubiquitously expressed.

VPS4A antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

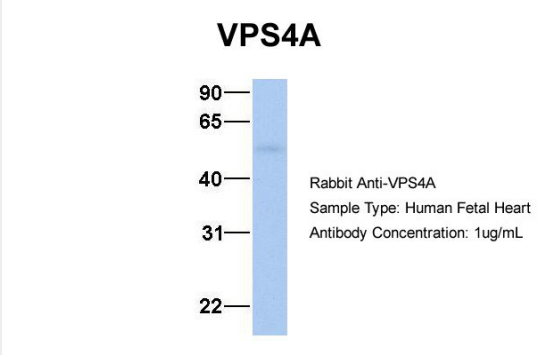
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

VPS4A antibody - N-terminal region - Images

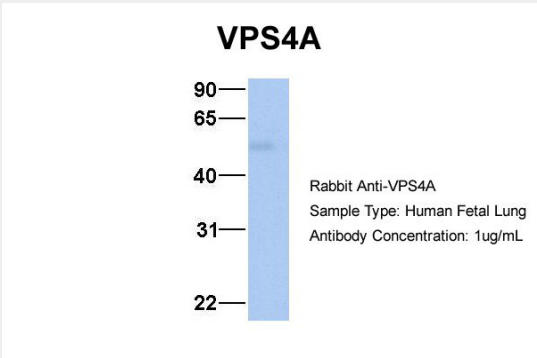


WB Suggested Anti-VPS4A Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: Human Muscle

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Host: Rabbit
Target Name: VPS4A
Sample Tissue: Human Fetal Heart
Antibody Dilution: 1.0µg/ml



Host: Rabbit
Target Name: VPS4A
Sample Tissue: Human Fetal Lung
Antibody Dilution: 1.0µg/ml