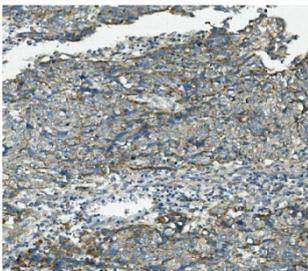


VPS4B Antibody / MIG1 (RQ6020)

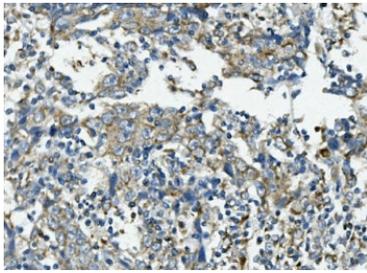
Catalog No.	Formulation	Size
RQ6020	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

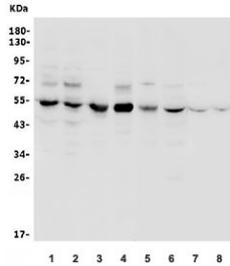
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	O75351
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This VPS4B antibody is available for research use only.



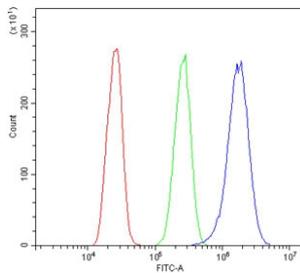
IHC staining of FFPE human lung cancer with VPS4B antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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Western blot testing of human 1) HeLa, 2) HEK293, 3) Jurkat, 4) SK-O-V3, 5) rat kidney, 6) rat PC-3, 7) mouse brain and 8) mouse NIH 3T3 lysate with VPS4B antibody. Predicted molecular weight ~49 kDa.



Flow cytometry testing of human A431 cells with VPS4B antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= VPS4B antibody.

Description

Vacuolar protein sorting-associated protein 4B is a protein that in humans is encoded by the *VPS4B* gene. It is mapped to 18q21.33. The protein encoded by this gene is a member of the AAA protein family (ATPases associated with diverse cellular activities), and is the homolog of the yeast *Vps4* protein. In humans, two paralogs of the yeast protein have been identified. The former share a high degree of aa sequence similarity with each other, and also with yeast *Vps4* and mouse *Skd1* proteins. Mouse *Skd1* (suppressor of K⁺ transport defect 1) has been shown to be a yeast *Vps4* ortholog. Functional studies indicate that both human paralogs associate with the endosomal compartments, and are involved in intracellular protein trafficking, similar to *Vps4* protein in yeast. The gene encoding this paralog has been mapped to chromosome 18; the gene for the other resides on chromosome 16.

Application Notes

Optimal dilution of the VPS4B antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids M1-K85) was used as the immunogen for the VPS4B antibody.

Storage

After reconstitution, the VPS4B antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

