

Datasheet for ABIN7599531
anti-VPS4A antibody (AA 1-71)



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Overview

Quantity:	100 µg
Target:	VPS4A
Binding Specificity:	AA 1-71
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VPS4A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-VPS4A Antibody Picoband®
Immunogen:	E.coli-derived human VPS4A recombinant protein (Position: M1-K71).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-VPS4A Antibody Picoband® (ABIN7599531). Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	VPS4A
Alternative Name:	VPS4A (VPS4A Products)
Background:	Synonyms: Vacuolar protein sorting-associated protein 4A, Protein SKD2, VPS4-1, hVPS4, VPS4A, VPS4 Tissue Specificity: Ubiquitously expressed. Background: Vacuolar protein sorting-associated protein 4A is a protein that in humans is encoded by the VPS4A gene. It is mapped to 16q22.1. 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. The mouse Skd1 (suppressor of K⁺ transport defect 1) has been shown to be really an 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 16, the gene for the other resides on chromosome 18.
Molecular Weight:	50 kDa
Gene ID:	27183
Pathways:	Microtubule Dynamics , CXCR4-mediated Signaling Events

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Scheuring, S., Rohricht, R. A., Schoning-Burkhardt, B., Beyer, A., Muller, S., Abts, H. F., Kohrer, K. Mammalian cells express two VPS4 proteins both of which are involved in intracellular protein trafficking. J. Molec. Biol. 312: 469-480, 2001. 2. Scott, A., Gaspar, J., Stuchell-Brereton, M. D., Alam, S. L., Skalicky, J. J., Sundquist, W. I. Structure and ESCRT-III protein interactions of the MIT domain of human VPS4A. Proc. Nat. Acad. Sci. 102: 13813-13818, 2005. 3. Stuchell-Brereton, M. D., Skalicky, J. J., Kieffer, C., Karren, M. A., Ghaffarian, S., Sundquist, W. I. ESCRT-III recognition by VPS4 ATPases. Nature 449: 740-744, 2007.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg NaN ₃ .
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.