

Datasheet for ABIN7601748  
**anti-VPS41 antibody (AA 44-843)**



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## Overview

Quantity:	100 µg
Target:	VPS41
Binding Specificity:	AA 44-843
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VPS41 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Flow Cytometry (FACS)

## Product Details

Purpose:	Anti-VPS41 Antibody Picoband®
Immunogen:	E.coli-derived human VPS41 recombinant protein (Position: Q44-R843).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-VPS41 Antibody Picoband® (ABIN7601748). Tested in ELISA, Flow Cytometry, 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

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Target:	VPS41
Alternative Name:	VPS41 ( <a href="#">VPS41 Products</a> )
Background:	<p>Synonyms: E3 SUMO-protein ligase PIAS2, Androgen receptor-interacting protein 3, ARIP3, DAB2-interacting protein, DIP, E3 SUMO-protein transferase PIAS2, Msx-interacting zinc finger protein, Miz1, PIAS-NY protein, Protein inhibitor of activated STAT x, Protein inhibitor of activated STAT2, PIAS2, PIASX</p> <p>Tissue Specificity: Mainly expressed in testis. Isoform 3 is expressed predominantly in adult testis, weakly in pancreas, embryonic testis and sperm, and at very low levels in other organs.</p> <p>Background: Vesicle mediated protein sorting plays an important role in segregation of intracellular molecules into distinct organelles. Genetic studies in yeast have identified more than 40 vacuolar protein sorting (VPS) genes involved in vesicle transport to vacuoles. This gene encodes the human ortholog of yeast Vps41 protein which is also conserved in Drosophila, tomato, and Arabidopsis. Expression studies in yeast and human indicate that this protein may be involved in the formation and fusion of transport vesicles from the Golgi. Several transcript variants encoding different isoforms have been described for this gene, however, the full-length nature of not all is known.</p>
Molecular Weight:	99 kDa
Gene ID:	27072
UniProt:	<a href="#">P49754</a>

## Application Details

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Application Notes:	<p>Western blot, 0.25-0.5 µg/mL/mL, Human, Mouse, Rat</p> <p>Flow Cytometry (Fixed), 1-3 µg/mL/1x10<sup>6</sup> cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL/mL, Human</p> <p>1. Asensio, C. S., Sirkis, D. W., Maas, J. W., Jr., Egami, K., To, T.-L., Brodsky, F. M., Shu, X., Cheng, Y., Edwards, R. H. Self-assembly of VPS41 promotes sorting required for biogenesis of the regulated secretory pathway. <i>Dev. Cell</i> 27: 425-437, 2013. 2. Cabrera, M., Langemeyer, L., Mari, M., Rethmeier, R., Orban, I., Perz, A., Bocker, C., Griffith, J., Klose, D., Steinhoff, H.-J., Reggiori, F., Engelbrecht-Vandre, S., Ungermann, C. Phosphorylation of a membrane curvature-sensing motif switches function of the HOPS subunit Vps41 in membrane tethering. <i>J. Cell Biol.</i> 191: 845-859, 2010. [PubMed: 21079247, images, related citations] [Full Text] 3. Hartz, P. A. Personal Communication. Baltimore, Md. 10/2/2009.</p>
Restrictions:	For Research Use only

## Handling

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Format:	Lyophilized
Reconstitution:	Adding 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 <sub>2</sub> HPO <sub>4</sub> .
Storage:	4 °C, -20 °C
Storage Comment:	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 freezing and thawing.