

Anti-VSP29 antibody, rabbit polyclonal

81-125 200 µg

Shipping and Storage: Ship at 4°C or -20°C and store at -20°C. Do not freeze below -20°C.

Immunogen: Recombinant His6-tagged VSP29 of *Arabidopsis thaliana*.

Form: 2 mg/ml in PBS⁻ with 50% glycerol. Filter-sterilized. No preservative or carrier protein

Purity: IgG fraction purified with protein A from the rabbit antiserum to VSP29.

Reactivity: *Arabidopsis thaliana*. Not tested in other species.

Applications:

1. Western blotting (1/1,000~1/3,000)
2. Immunoprecipitation (1/100)

Background: VSP29 (Vacuolar protein sorting-associated protein 29) plays a role in vesicular protein sorting. Component of the membrane-associated retromer complex which is essential in endosome-to-Golgi retrograde transport. Required for the auxin-carrier protein PIN2 sorting to the lytic vacuolar pathway and the PIN1 recycling to the plasma membrane. Also involved in the efficient sorting of seed storage proteins globulin 12S and albumin 2S. The VPS29-VPS26-VPS35 subcomplex may be involved in recycling of specific cargos from endosome to the plasma membrane

VPS29 consists of 190 aa with molecular mass of 21 kDa.

Subcellular localization: Endosome and Golgi apparatus

Data Link: [UniProtKB:Q9STT2](https://www.uniprot.org/entry/Q9STT2) (VPS29_ARATH)

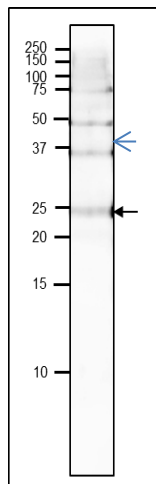


Fig.1 Western blotting of VPS29.

Sample: Total extract of Shoot apical meristem of inflorescence stems, *Arabidopsis thaliana*.

Electrophoresed on 18% SDS-PAGE and blotted at 15 v overnight with wet system. Anti-VPS29 antibody was used at 1/2,000 dilution and as the second antibody, HRP-conjugated goat anti-rabbit IgG antibody (Abcam ab97051) was used at 1/10,000

The apparent molecular mass estimated on SDS-PAGE is larger than the calculated mass of 21 kDa (Ref. 1)

Reference. This antibody was described in Ref.1 and used in the following publications.

1. Shimada T et al. AtVPS29, a putative component of a retromer complex, is required for the efficient sorting of seed storage proteins. *Plant Cell Physiol.* 2006 Sep;47(9):1187-94. PMID: [16926167](https://pubmed.ncbi.nlm.nih.gov/16926167/). **WB (Arabidopsis)**

2. Yamazaki M et al. Arabidopsis VPS35, a retromer component, is required for vacuolar protein sorting



and involved in plant growth and leaf senescence. [Plant Cell Physiol.](#) 2008 Feb;49(2):142-56. PMID: [18222962](#) WB, IP (Arabidopsis)

Related Product: 81-124 Anti-VPS35 antibody, rabbit polyclonal