

Anti-Pyrophosphate-energized vacuolar membrane proton pump 1 antibody

Catalog: PHY0719A

Product Information

Description:	Rabbit polyclonal antibody
Background:	In <i>Arabidopsis thaliana</i> , the vacuolar H ⁺ -translocating pyrophosphatase (V-PPase) uses energy from the hydrolysis of PP _i to power active proton transport across the membranes.
Synonyms:	AVP1, ARABIDOPSIS THALIANA V-PPASE 3, ATAVP1, ATAVP3, ATVHP1;1, AVP-3, FUGU 5, FUGU5, VHP1
Immunogen:	KLH-conjugated synthetic peptide (17 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> AVP1 (AT1G15690).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of 0.01M sterile PBS. "Note: please spin tube briefly prior to opening it to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tube".
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 6 months, -20 to -70°C under sterile conditions after reconstitution. 1 month, 2 to 8°C under sterile conditions after reconstitution.
Shipping:	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	81 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Brassica napus</i> , <i>Brassica rapa</i> , <i>Spinacia oleracea</i> , and 80-99% homologues with the

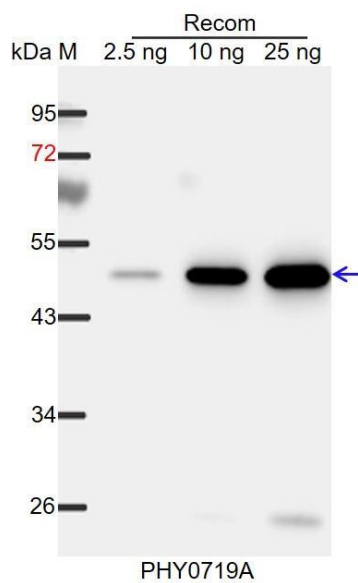
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sequence in *Solanum tuberosum*, *Gossypium raimondii*, *Zea mays*, *Oryza sativa*, *Vitis vinifera*, *Sorghum bicolor*, *Glycine max*, *Populus trichocarpa*, *Panicum virgatum*, *Triticum aestivum*, *Hordeum vulgare*, *Setaria viridis*, *Nicotiana tabacum*, *Solanum lycopersicum*, *Cucumis sativus*.

The sequence of the synthetic peptide used for immunization is 82% homologues with the sequence in VHP2;1 (AT1G78920) and VHP2;2 (AT1G16780).

For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 50 kDa.

Electrophoresis: 12% SDS-PAGE

Transfer: blotting to NC (nitrocellulose) membrane for 1 h.

Blocking: 5% skim milk at RT or 4°C for 1 h.

Primary antibody: 1:1000 dilution overnight at 4°C.

Secondary antibody: 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

Detection: using chemiluminescence substrate and image were captured with CCD camera.