Anti-Aquaporin PIP1-1/2 antibody

Catalog: PHY1384A

Product Information

Description:	Rabbit polyclonal antibody
Background:	PIP1;1 and PIP1;2 are plasma membrane aquaporins. They facilitate the transport of water and small neutral molecules across cellular membranes, playing crucial roles in water homeostasis, hydraulic conductivity, and plant responses to various environmental conditions.
Synonyms:	PIP1-1/2, PIP1A/B, PIP1;1/2, PLASMA MEMBRANE INTRINSIC PROTEIN 1A/B
Immunogen:	KLH-conjugated synthetic peptide (14 aa from central section) derived from *Arabidopsis thaliana* PIP1-1 (AT3G61430) and PIP1-2 (AT2G45960).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of sterile 1XPBS (PH=7.4) containing 30% glycerol. "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℃ as supplied. 6 months, -20 to -70℃ under sterile conditions after reconstitution. 1 month, 2 to 8℃ under sterile conditions after reconstitution.
Shipping:	The product is shipped at 4℃. Upon receipt, store it immediately at the temperature recommended above.

Application Information

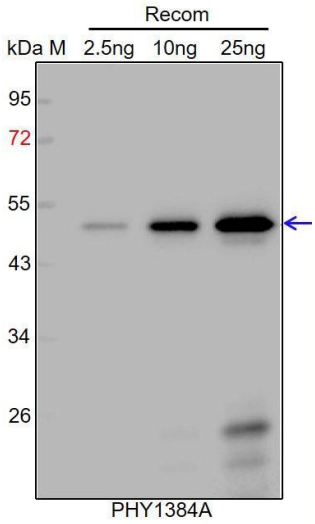
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	31 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Glycine*

max, Brassica rapa, Brassica napus, Panicum virgatum, Solanum tuberosum, Triticum aestivum, Nicotiana tabacum, Setaria viridis, Vitis vinifera, Zea mays, Hordeum vulgare, Physcomitrium patens, Oryza sativa, Medicago truncatula, Sorghum bicolor, Populus trichocarpa, Solanum lycopersicum, Gossypium raimondii.

The sequence of the synthetic peptide used for immunization is 93% homologues with the sequence in PIP2B (AT2G37170), PIP2C (AT2G37180), PIP1C (AT1G01620), PIP1D (AT4G23400), PIP1E (AT4G00430), PIP2E (AT2G39010), PIP2F(AT5G60660), and 86% homologues with the sequence in PIP3B (AT2G16850), PIP3A (AT4G35100), PIP2D (AT3G54820), PIP2A (AT3G53420).

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℃ for 1 h.

Primary antibody: 1:1000 dilution overnight at 4℃.

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.