

Anti-Plasma membrane aquaporin 2/3 antibody

Catalog: PHY0176A

Product Information

Description:	Rabbit polyclonal antibody
Background:	PIP2/3 are members of the plasma membrane intrinsic protein PIP. They may be involved in the osmoregulation in plants under high osmotic stress such as under a high salt condition.
Synonyms:	PIP2/3
Immunogen:	KLH-conjugated synthetic peptide (14 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> PIP3A (AT4G35100), PIP3B (AT2G16850), PIP2D (AT3G54820), PIP2A (AT3G53420).
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:	30 kDa
Confirmed Reactivity:	<i>Arabidopsis thaliana</i>
Predicted Reactivity:	The sequence of the synthetic peptide used for immunization is 93% homologues with the sequence in PIP2B (AT2G37170), PIP2C (AT2G37180), PIP2F (AT5G60660), PIP2E (AT2G39010), PIP1C

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(AT1G01620), PIP1D (AT4G23400), PIP1E (AT4G00430), and 86% homologues with the sequence in PIP1B (AT2G45960), PIP1A (AT3G61430).

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Populus trichocarpa*, *Medicago truncatula*, *Gossypium raimondii*, *Glycine max*, *Triticum aestivum*, *Spinacia oleracea*, *Brassica rapa*, *Brassica napus*, *Hordeum vulgare*, *Zea mays*, *Setaria viridis*, *Solanum lycopersicum*, *Solanum tuberosum*, *Vitis vinifera*, *Cucumis sativus*, *Nicotiana tabacum*.

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