

# Anti-PIP1 aquaporins antibody

Catalog: PHY1384A

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	PIPs proteins are aquaporins which selectively conduct water molecules in and out of the cell, while preventing the passage of ions and other solutes. PIPs are also known as water channels, aquaporins are integral membrane pore proteins. Some of them, known as aquaglyceroporins, also transport other small uncharged solutes, such as glycerol, CO <sub>2</sub> , ammonia and urea across the membrane, depending on the size of the pore.
<b>Synonyms:</b>	PIP1;1
<b>Immunogen:</b>	KLH-conjugated synthetic peptide of PIP1A, PIP1B derived from <i>Arabidopsis thaliana</i> AT3G61430, AT2G45960.
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Immunogen affinity purified
<b>Reconstitution:</b>	Reconstitution with 150 µl of 0.01 M 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".
<b>Stability &amp; Storage:</b>	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.
<b>Shipping:</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

## Application Information

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

Research Use Only

*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](mailto:tech@phytoab.com).