

# Anti-Aquaporin PIP1-1/2, N-terminal antibody

Catalog: PHY1308S

## 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>	PIP1-1/2, PIP1A/B, PIP1;1/2, PLASMA MEMBRANE INTRINSIC PROTEIN 1A/B
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (19 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> PIP1-1 (AT3G61430) and PIP1-2 (AT2G45960).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Serum Peptide affinity form antibody available upon request at <a href="mailto:info@phytoab.com">info@phytoab.com</a> .
<b>Reconstitution:</b>	Reconstitution with 150 µl of sterile water. "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

Research Use Only

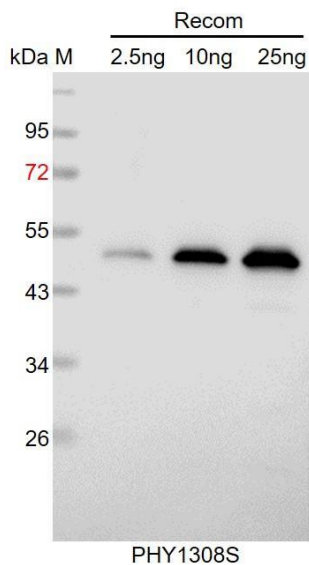
### Predicted Reactivity:

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Brassica napus*, *Brassica rapa*, and 80-99% homologues with the sequence in *Cucumis sativus*, *Populus trichocarpa*, *Gossypium raimondii*, *Vitis vinifera*.

The sequence of the synthetic peptide used for immunization is 95% (18 / 19) homologues with the sequence in PIP1;3 (AT1G01620), and 89% (17 / 19) homologues with the sequence in PIP1;4 (AT4G00430).

For more species homologues information, please contact tech support at [tech@phytoab.com](mailto: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.