

# Anti-PIP2;2/3/4/6 antibody

Catalog: PHY0673S

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	PIP2;2/3/4/6 are members of the plasma membrane intrinsic protein subfamily PIP2. They localize to the plasma membrane and exhibit water transport activity in <i>xenopus</i> oocyte.
<b>Synonyms:</b>	PIP2;2/3/4/6
<b>Immunogen:</b>	KLH-conjugated synthetic peptide of PIP2;2/3/4/6 (14 aa from central section) derived from <i>Arabidopsis thaliana</i> AT2G37170, AT2G37180, AT5G60660, AT2G39010.
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Serum
<b>Reconstitution:</b>	Peptide affinity form antibody available upon request at <a href="mailto:info@phytoab.com">info@phytoab.com</a> . 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>	30 kDa
<b>Predicted Reactivity:</b>	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Brassica</i>

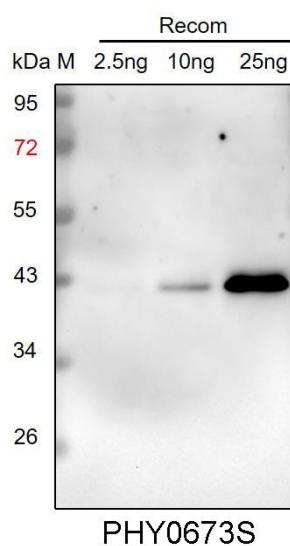
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*rapa*, *Brassica napus*, *Panicum virgatum*, *Sorghum bicolor*, *Oryza sativa*, *Glycine max*, *Vitis vinifera*, *Zea mays*, *Cucumis sativus*, *Setaria viridis*, *Medicago truncatula*, *Nicotiana tabacum*, *Hordeum vulgare*, *Solanum tuberosum*, *Triticum aestivum*, *Gossypium raimondii*, *Solanum lycopersicum*, *Physcomitrium patens*, and 92% homologues with the sequence in *Spinacia oleracea*, *leymus chinensis*.

The sequence of the synthetic peptide used for immunization is 93% homologues with the sequence in PIP2;1 (AT3G53420), PIP2;5 (AT3G54820), PIP2;7 (AT4G35100), PIP2;8 (AT2G16850), PIP1;2 (AT2G45960), PIP1;1 (AT3G61430).

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 42 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.

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