

# Anti-Plasma membrane H<sup>+</sup>-ATPase antibody

Catalog: PHY3928A

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	H <sup>+</sup> -ATPase is a primary proton pump in plants. It generates an electrochemical gradient across the plasma membrane, which drives the secondary active transport of nutrients (e.g., K <sup>+</sup> , NO <sub>3</sub> <sup>-</sup> ) and regulates cell elongation, stomatal opening, and pH homeostasis, crucial for growth and stress responses.
<b>Synonyms:</b>	H <sup>+</sup> ATPase, AHA, HA
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (15 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> HA1 ( AT2G18960), HA2 (AT4G30190), HA3 (AT5G57350) and HA9 (AT1G80660).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Immunogen affinity purified
<b>Reconstitution:</b>	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".
<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>	104 kDa
<b>Predicted Reactivity:</b>	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in

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*Glycine max, Brassica napus, Brassica rapa, Vitis vinifera, Medicago truncatula, Cucumis sativus, Gossypium raimondii, Populus trichocarpa, Spinacia oleracea.*

The sequence of the synthetic peptide used for immunization is 93% (14/15) homologues with the sequence in AT4G11730.

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