Anti-Plasma membrane H+ATPase antibody

Catalog: PHY0760A

Product Information

Description:	Rabbit polyclonal antibody
Background:	The H+-ATPase, a protein with a molecular mass of about 100 kD, is composed of a single polypeptide that is predicted to beanchored in the plasma membrane by 10 membrane-spanning regions. The proton-pump ATPase (H+-ATPase) of the plant plasma membrane acts as a primary transporter by pumping protons out of the cell, thereby creating pH and electrical potential differences across the plasmalemma. Transport of many solutes (ions, metabolites, etc.) into and out of the cell involves secondary transporters whose ability to function is directly dependent on the proton-motive force created by the H+-ATPase.
Synonyms:	H+ATPase, AHA, HA
Immunogen:	KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from *Arabidopsis thaliana* AHA1 (AT2G18960), AHA2 (AT4G30190) and AHA3 (AT5G57350).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	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".
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70℃ as supplied. 6 months, -20 to -70℃ under sterile conditions after reconstitution. 1 month, 2 to 8℃ under sterile conditions after reconstitution.
Shipping:	The product is shipped at 4℃. 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: 104 kDa

Predicted Reactivity: Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Gossypium raimondii*, *Panicum virgatum*, *Zea mays*, *Setaria viridis*, *Sorghum bicolor*, *Oryza sativa*, *Hordeum vulgare*, *Triticum aestivum*, *Brassica rapa*, *Brassica napus*, *Glycine max*, *Spinacia oleracea.*
The sequence of the synthetic peptide used for immunization is 93% (14 / 15) homologues with the sequence in AHA7 (AT3G60330), AHA8 (AT3G42640), AHA4 (AT3G47950), AHA6 (AT2G07560), AHA11 (AT5G62670), AHA9 (AT1G80660), and 87% (13 / 15) homologues with the sequence in AHA5 (AT2G24520) and AHA10 (AT1G17260).
For more species homologues information, please contact tech support at tech@phytoab.com.