

Anti-AHA11 antibody

Catalog: PHY2350A

Product Information

Description:	Rabbit polyclonal antibody
Background:	Plant plasma membrane H ⁺ -ATPase is a P-type proton pump that uses ATP hydrolysis to export H ⁺ from the cytoplasm to the apoplast. It establishes an electrochemical gradient that drives nutrient uptake, regulates pH homeostasis, and controls growth, development, and stress responses.
Synonyms:	H ⁺ ATPase, AHA, ATHA, HA, PLASMA MEMBRANE PROTON ATPASE, PMA
Immunogen:	KLH-conjugated synthetic peptide (18 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> AHA11 (AT5G62670).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	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".
Stability & Storage:	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.
Shipping:	The product is shipped at 4°C. 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:	103 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Brassica rapa</i> , <i>Brassica napus</i> , and 80-99% homologues with the sequence in <i>Gossypium raimondii</i> , <i>Medicago truncatula</i> , <i>Solanum tuberosum</i> , <i>Nicotiana tabacum</i> , <i>Vitis vinifera</i> , <i>Populus trichocarpa</i> , <i>Solanum</i>

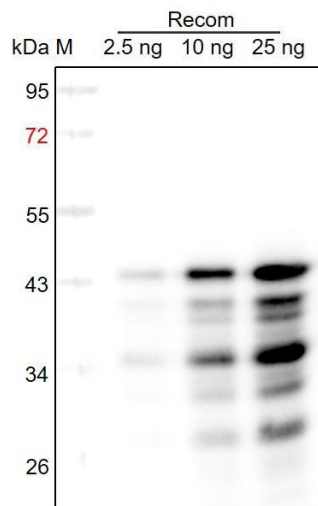
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lycopersicum, Cucumis sativus, Spinacia oleracea, Zea mays, Glycine max, Sorghum bicolor, Setaria viridis.

The sequence of the synthetic peptide used for immunization is 89% homologues with the sequence in AHA4 (AT3G47950).

For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example



PHY2350A

Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 45 kDa. Degradation fragments were also detected.

Electrophoresis: 12% SDS-PAGE

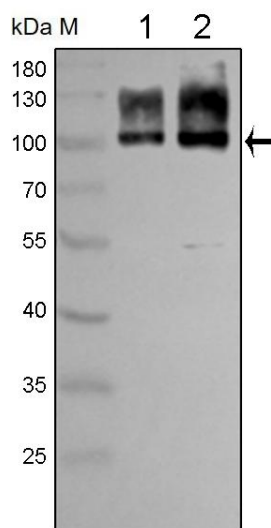
Transfer: blotting to NC (nitrocellulose) membrane for 1 h.

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.



PHY2350A

Lane 1: 15 µg Arabidopsis crude microsome membrane protein.

Lane 2: 30 µg Arabidopsis crude microsome membrane protein.

Electrophoresis: 10% 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.