

Anti-ATP synthase subunit a, chloroplastic antibody

Catalog: PHY3943S

Product Information

Description:	Rabbit polyclonal antibody
Background:	ATPI is a subunit of ATPase complex CF ₀ , which is a proton channel that supplies the proton motive force to drive ATP synthesis by CF ₁ portion of the complex.
Synonyms:	ATPI, ATP synthase F ₀ sector subunit a, F-ATPase subunit IV
Immunogen:	KLH-conjugated synthetic peptide (13 aa from Central section) derived from <i>Arabidopsis thaliana</i> ATPI (ATCG00150).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Serum Peptide affinity form antibody available upon request at info@phytoab.com .
Reconstitution:	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".
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:	27 kDa
Confirmed Reactivity:	<i>Arabidopsis thaliana</i>
Predicted Reactivity:	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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napus, *Gossypium raimondii*, and 80-99% homologues with the sequence in *Populus trichocarpa*, *Spinacia oleracea*, *Glycine max*, *Vitis vinifera*, *Nicotiana tabacum*, *Spinacia oleracea*, *Medicago truncatula*, *Cucumis sativus*.

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

Application Example



Thy: thylakoid membrane protein from *Arabidopsis thaliana* containing 10 µg, 20 µg, and 40 µg of chlorophyll, respectively.

Electrophoresis: Tricine-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.