Anti-CFoIV subunits of chloroplast ATP synthase antibody

Catalog: PHY1355A

Product Information

Description:	Rabbit polyclonal antibody
Background:	ATPI is a subunit of ATPase complex CF0, which is a proton channel that supplies the proton motive force to drive ATP synthesis by CF1 portion of the complex.
Synonyms:	ATPI, ATP synthase F0 sector subunit a, F-ATPase subunit IV
Immunogen:	KLH-conjugated synthetic peptide (15 aa from N terminal section) derived from *Arabidopsis thaliana* ATPI (ATCG00150).
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.

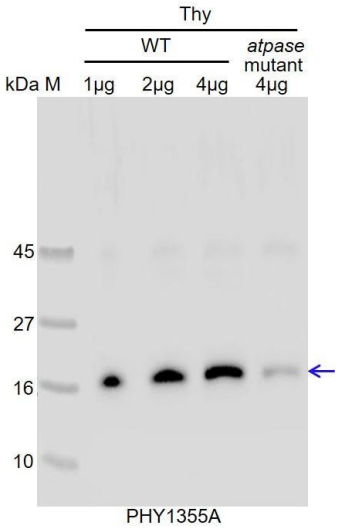
Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	27 / 17 kDa
Confirmed Reactivity:	*Arabidopsis thaliana*
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Glycine*

max, *Cucumis sativus*, *Nicotiana tabacum*, *Populus trichocarpa*, *Solanum lycopersicum*, *Medicago truncatula*, *Gossypium raimondii*, and 80-99% homologues with the sequence in *Hordeum vulgare*, *Oryza sativa*, *Triticum aestivum*, *Leymus chinensis*, *Sorghum bicolor*, *Zea mays*, *Panicum virgatum*, *Zea mays*, *Brassica napus*, *Vitis vinifera*, *Brassica rapa*, *Spinacia oleracea.*

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

Application Example



Thy-WT: thylakoid membrane protein from WT of *Arabidopsis thaliana* containing 1 μg, 2 μg and 4 μg of chlorophyll, respectively.

Thy-*atpase*: thylakoid membrane protein from Arabidopsis mutant with low accumulation of ATPase containing 4 μg of chlorophyll.

Electrophoresis: Tricine-SDS-PAGE

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

Blocking: 5% skim milk at RT or 4℃ for 1 h.

Primary antibody: 1:1000 dilution overnight at 4℃.

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.