Anti-ATP-dependent zinc metalloprotease FTSH 1, chloroplastic antibody

Catalog: PHY1823S

Product Information

Description:	Rabbit polyclonal antibody
Background:	FtsH is an essential ATP-dependent metalloprotease for protein quality control in the thylakoid membrane of *Arabidopsis thaliana* chloroplasts. It is required for chloroplast development during leaf growth, and particularly for the specific degradation of photo-damaged D1 protein in the photosystem II (PSII) complex to maintain photosynthesis activity. In the *Arabidopsis thaliana* genome, 12 genes encoding members of the FtsH family have been identified. Nine of these proteins (FtsH1, 2, 5, 6, 7, 8, 9, 11, and 12) are located in the chloroplast.
Synonyms:	FTSH1, FTSH PROTEASE 1
Immunogen:	KLH-conjugated synthetic peptide (18 aa from N terminal section) derived from *Arabidopsis thaliana* FTSH1 (AT1G50250).
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℃ 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

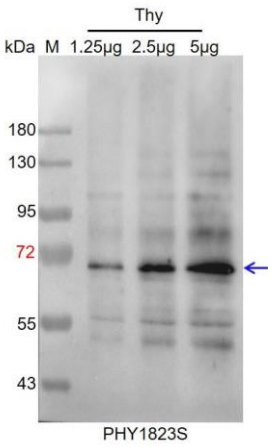
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.

Expected / apparent MW: 77 / 71 kDa

Confirmed Reactivity: *Arabidopsis thaliana*

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

Application Example



Thy: thylakoid membrane protein from *Arabidopsis thaliana* containing 1.25 μg, 2.5 μg and 5 μg of chlorophyll, respectively.

Electrophoresis: 10% 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.