

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

Catalog: PHY7927S

Product Information

Description:	Rabbit polyclonal antibody
Background:	FtsH is an essential ATP-dependent metalloprotease for protein quality control in the thylakoid membrane of <i>Arabidopsis thaliana</i> 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 <i>Arabidopsis thaliana</i> 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 <i>Arabidopsis thaliana</i> 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°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.
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Research Use Only

Expected / apparent MW: 77 kDa

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