Anti-ATP-dependent Clp protease proteolytic subunit-related protein 1, chloroplastic, C-terminal antibody

Catalog: PHY0888A

Product Information

Description:	Rabbit polyclonal antibody
Background:	Though ClpR1 is similar to ClpP proteins, this does not contains the highly conserved catalytic triad of Ser-type proteases (Ser-His-Asp). It is required for chloroplast development and differentiation.
Synonyms:	ClpR1, CLP PROTEASE PROTEOLYTIC SUBUNIT 1, CLPR1, NCLPP5, NUCLEAR CLPP 5, SUPPRESSOR OF VARIEGATION 2, SVR2
Immunogen:	KLH-conjugated synthetic peptide (20 aa from C terminal section) derived from *Arabidopsis thaliana* ClpR1 (AT1G49970).
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.

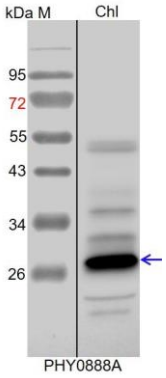
Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	43 / 28 kDa
Confirmed Reactivity:	*Arabidopsis thaliana*

Predicted Reactivity: Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Brassica napus*, *Brassica rapa.*

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

Application Example



Chl: 80 μg total chloroplast protein from *Arabidopsis thaliana*.

Electrophoresis: 15% SDS-PAGE

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

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

Primary antibody: 1:2000 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.