

Anti-DG1 antibody

Catalog: PHY1878A

Product Information

Description:	Rabbit polyclonal antibody
Background:	DG1 is a chloroplast-localized pentatricopeptide repeat (PPR) protein in <i>Arabidopsis thaliana</i> , critical for early chloroplast development and photosynthetic protein synthesis. It interacts with SIG6 to reduce PEP (plastid encoded RNA polymerase) transcriptional activity. DG1 also regulates embryonic symmetry transition from radial to bilateral by antagonizing GUN1 mediated plastid signals.
Synonyms:	DG1, DELAYED GREENING 1, EMB1408, EMB246, EMBRYO DEFECTIVE 1408, EMBRYO DEFECTIVE 246, THERMO SENSITIVE LEAF COLOR 1, TSL1
Immunogen:	KLH-conjugated synthetic peptide (15 aa from C-terminus) derived from <i>Arabidopsis thaliana</i> DG1 (AT5G67570).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of sterile 1XPBS (PH=7.4) containing 30% glycerol. "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

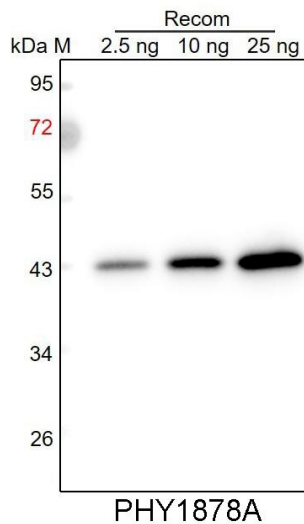
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
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Research Use Only

Expected / apparent MW: 85 kDa

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

Application Example



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 43 kDa.

Electrophoresis: 12% 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.