Anti-Protein PLASTID REDOX INSENSITIVE 2, chloroplastic antibody

Catalog: PHY7966A

Product Information

Description:	Rabbit polyclonal antibody
Background:	PLASTID REDOX INSENSITIVE2 (PRIN2) was identified using forward genetics as a chloroplast component involved in redox-mediated retrograde signaling. PRIN2 mutants are impaired in PEP (plastid-encoded RNA polymerase) activity and high light-dependent plastid redox signalling to the nucleus.
Synonyms:	PRIN2, PLASTID REDOX INSENSITIVE 2
Immunogen:	KLH-conjugated synthetic peptide (14 aa from Central section) derived from *Arabidopsis thaliana* PRIN2 (AT1G10522).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen Affinity Purified
Reconstitution:	Reconstitution with 150 µl of sterile 1×PBS (PH=7.4). "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.

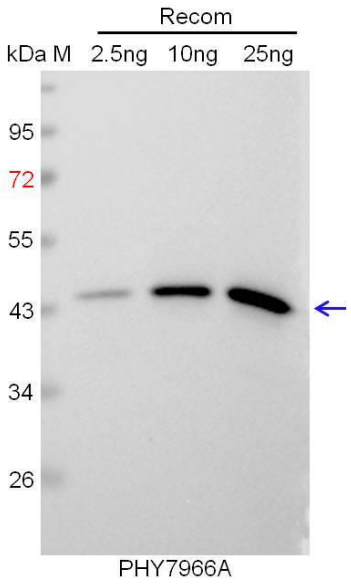
Application Information

Recommended Dilution:	Western Blot (1:1000-1:5000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	20 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used

for immunization is 100% homologues with the sequence in *Brassica napus*, *Brassica rapa,* and 80-99% homologues with the sequence in *Glycine max*, *Medicago truncatula*.

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 45 kDa.

Electrophoresis: 12% 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.