Anti-Ferredoxin-1, chloroplastic antibody

Catalog: PHY0355S

Product Information

Description:	Rabbit polyclonal antibody
Background:	In higher plants, [2Fe-2S] ferredoxin (Fd) proteins are the unique electron acceptors from photosystem I (PSI).
Synonyms:	FD1, AtFd1
Immunogen:	KLH-conjugated synthetic peptide of FD1 derived from *Arabidopsis thaliana* AT1G10960.
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.

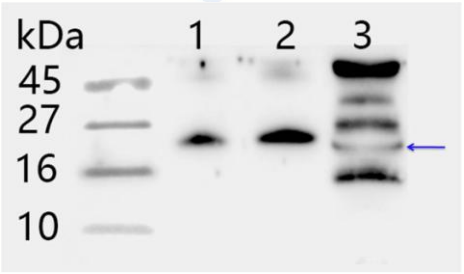
Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected/apparent MW:	18 kDa
Confirmed Reactivity:	*Arabidopsis thaliana*
Predicted Reactivity:	Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Synechocystis sp. PCC 6803.*

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

Application Example

Example 1



PHY0355S

Lane 1: 50 ng recombinant protein of FD1.

Lane 2: 100 ng recombinant protein of FD1.

Lane 3: Thylakoid membrane protein from *Arabidopsis thaliana* leaf containing 0.5 µg of chlorophyll.

Electrophoresis: Tricine-SDS-PAGE

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

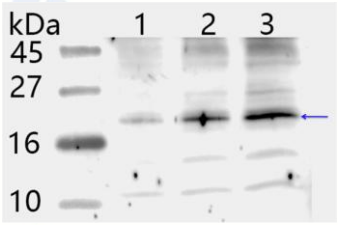
Blocking: 5% skim milk at RT or 4℃ for 1 h.

Primary antibody: 1:1000 dilution overnight at 4℃.

Secondary antibody: 1:20000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

Detection: using chemiluminescence substrate and image were captured with CCD camera.

Example 2



Lane 1: 5.7 µg stromal protein from *Arabidopsis thaliana* leaf.

Lane 2: 11.4 µg stromal protein from *Arabidopsis thaliana* leaf.

Lane 3: 12 µg stromal protein from *Arabidopsis thaliana* leaf.

Electrophoresis: Tricine-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: 1:20000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

Detection: using chemiluminescence substrate and image were captured with CCD camera.