Anti-Photosystem II protein D1, C-terminal antibody

Catalog: PHY5268S

Product Information

Description:	Rabbit polyclonal antibody
Background:	Photosystem II (PSII) is a light-driven water:plastoquinone oxidoreductase that uses light energy to abstract electrons from H2O, generating O2 and a proton gradient subsequently used for ATP formation. It consists of a core antenna complex that captures photons, and an electron transfer chain that converts photonic excitation into a charge separation.
Synonyms:	PsbA
Immunogen:	KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from *Synechocystis sp.* PCC 6803 PsbA (slr1311).
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

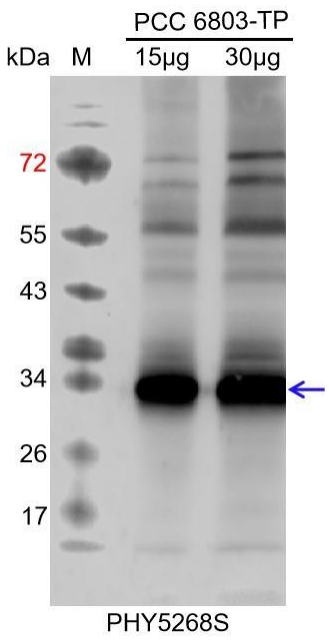
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	40 / 30 kDa
Confirmed Reactivity:	*Synechocystis sp.* PCC 6803

Predicted Reactivity:

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Nicotiana tabacum*, *Arabidopsis thaliana*, *Brassica napus*, *Setaria viridis*, *Hordeum vulgare*, *Oryza sativa*, *Medicago truncatula*, *Synechococcus elongatus* PCC 7942, *Vitis vinifera*, *Gossypium raimondii*, *Glycine max*, *Triticum aestivum*, *Brassica rapa, Populus trichocarpa, Cucumis sativus, Panicum virgatum, Chlamydomonas reinhardtii*, *Spinacia oleracea*, *Solanum lycopersicum*, *Zea mays*, *Physcomitrella patens*.

For homologues with other species especially algae, please contact tech support at tech@phytoab.com.

Application Example



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Lane 1: 15 μg whole-cell lysate protein from WT of *Synechocystis sp.* PCC 6803.

Lane 2: 30 μg whole-cell lysate protein from WT of *Synechocystis sp.* PCC 6803.

Electrophoresis: 15% SDS-Urea-PAGE

Transfer: blotting to NC (nitrocellulose) membrane for 1.5 h.

Blocking: 5% skim milk at RT or 4℃ for 2 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.