Anti-Lhcb4 protein of LHCII antibody

Catalog: PHY0044A

Product Information

Description:	Rabbit polyclonal antibody
Background:	The light-harvesting complex (LHC) functions as a light receptor; it captures and delivers excitation energy to photosystems. Lhcb4 (CP29) is one of the 3 minor chlrorophyll a/b-binding proteins associated with PSII in plants and algae. CP29 facilitates the State 1 to State 2 transition, where State I is induced by excess photosystem I (PSI) light and State 2 is induced by excess photosystem II (PSII) light.
Synonyms:	Lhcb4, Chlorophyll a-b binding protein CP29
Immunogen:	KLH-conjugated synthetic peptide of Lhcb4 derived from *Arabidopsis thaliana* AT5G01530.
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

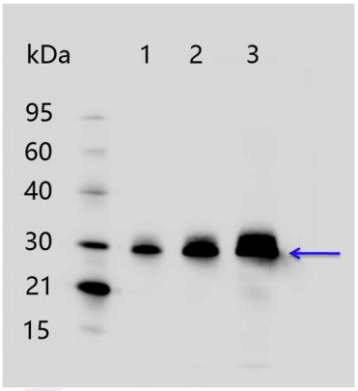
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected/apparent MW:	31 / 30 kDa
Confirmed Reactivity:	*Arabidopsis thaliana*

Predicted Reactivity:

Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Medicago truncatula, Brassica napus, Brassica rapa,* and 80-99% homologues with the sequence in *Cucumis sativus, Populus trichocarpa, Solanum lycopersicum, Nicotiana tabacum, Gossypium raimondii, Vitis vinifera,v Zea mays, Oryza sativa Japonica Group, Glycine max.*

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

Application Example



1-3 is thylakoid membrane protein from *Arabidopsis thaliana* leaf containing 0.1 µg, 0.25 µg, and 0.5 µg of chlorophyll, respectively.

Electrophoresis: 15% SDS-Urea-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.