

Anti-LHCB4.1/CP29 antibody

Catalog: PHY3434A

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 chlorophyll 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:	LHCB4.1, LIGHT HARVESTING COMPLEX PHOTOSYSTEM II
Immunogen:	KLH-conjugated synthetic peptide (15 aa from central section) derived from <i>Arabidopsis thaliana</i> LHCB4.1 (AT5G01530).
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.
Expected / apparent MW:	31/27 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used

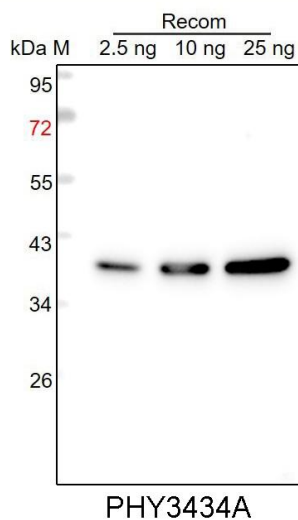
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for immunization is 80-99% homologues with the sequence in *Brassica rapa*, *Brassica napus*, *Solanum tuberosum*, *Nicotiana tabacum*, *Solanum lycopersicum*, *Glycine max*, *Medicago truncatula*, *Populus trichocarpa*, *Gossypium raimondii*, *Hordeum vulgare*, *Triticum aestivum*.

The sequence of the synthetic peptide used for immunization is 87% homologues with the sequence in LHCB4.2 (AT3G08940).

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 40 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.