

Anti-Chlorophyll a-b binding protein CP29.1, chloroplastic antibody

Catalog: PHY3434S

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: LHCB4.1, LIGHT HARVESTING COMPLEX PHOTOSYSTEM II

Immunogen: KLH-conjugated synthetic peptide (15 aa from Central section) derived from

Arabidopsis thaliana LHCB4.1 (AT5G01530).

Form: Lyophilized

Quantity:150 μgPurification: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 &Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Storage: 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



Confirmed Reactivity: Arabidopsis thaliana

Predicted Reactivity: Among species analyzed, the sequence of the synthetic peptide used

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.

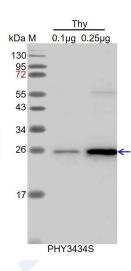
The sequence of the synthetic peptide used for immunization is 87%

homologues with the sequence in LHCB4.2 (AT3G08940).

For more species homologues information, please contact tech

support at tech@phytoab.com.

Application Example



Thy: thylakoid membrane protein from Arabidopsis thaliana containing

0.1 µg, and 0.25 µg of chlorophyll, respectively.

Electrophoresis: 15% SDS-PAGE.

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

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

Primary antibody: 1:2000 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.