

Anti-Chlorophyll a-b binding protein 3, chloroplastic, C-terminal antibody

Catalog: PHY3432S

Product Information

Description: Rabbit polyclonal antibody

Background: The light-harvesting complex (LHC) functions as a light receptor, it captures

and delivers excitation energy to photosystem with which it is closely

associated. The light-harvesting protein Lhca3 is one of the four main and

highly conserved types of chlorophyll a/b-binding proteins (Lhca1-4) of the light

harvesting antenna (LHCI) of plant photosystem I. Lhca3 is imported as a

precursor from the cytosol into the chloroplast. Upon integration in the thylakoid membrane Lhca3 forms a heterodimer (LHCI-680) with Lhca2 that associates

with the PSI core close to PsaF and PsaK.

Synonyms: LHCA3, PHOTOSYSTEM I LIGHT HARVESTING COMPLEX GENE 3

Immunogen: KLH-conjugated synthetic peptide (14 aa from C terminal section) derived from

Arabidopsis thaliana LHCA3 (AT1G61520).

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 $^{\circ}\mathrm{C}$ 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: 29 / 24 kDa

Confirmed Reactivity: Arabidopsis thaliana

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

for immunization is 100% homologues with the sequence in

Medicago truncatula, Spinacia oleracea, and 80-99% homologues

with the sequence in *Vitis vinifera, Brassica rapa, Gossypium raimondii, Glycine max, Populus trichocarpa, Brassica napus,*

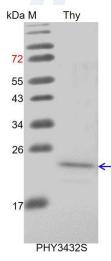
Cucumis sativus, Solanum tuberosum, Nicotiana tabacum, Solanum

lycopersicum.

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 of

chlorophyll.

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.