Anti-Protein LOW PSII ACCUMULATION 3, chloroplastic antibody

Catalog: PHY2617S

Product Information

Description:	Rabbit polyclonal antibody
Background:	Photosystem II (PSII) is a multisubunit membrane protein complex that is assembled in a sequence of steps. Low PSII Accumulation 3 (LPA3) is required for the assembly of the CP43 subunit in PSII complexes in *Arabidopsis*. It interacts with LPA2, a previously identified PSII CP43 assembly factor, and a double mutation of *LPA2* and *LPA3* is more deleterious for assembly than either single mutation, resulting in a seedling-lethal phenotype.
Synonyms:	LPA3, LOW PSII ACCUMULATION 3
Immunogen:	KLH-conjugated synthetic peptide (17 aa from C terminal section) derived from *Arabidopsis thaliana* LPA3 (AT1G73060).
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 (1:1000-1:5000) Note: Optimal dilutions/concentrations should be determined by the end user.

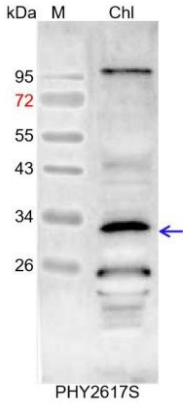
Expected / apparent MW: 40 / 33 kDa

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 *Cucumis sativus*, *Populus trichocarpa*, and 80-99% homologues with the sequence in *Gossypium raimondii*, *Vitis vinifera*, *Brassica napus*, *Brassica rapa*, *Spinacia oleracea*, *Glycine max*, *Zea mays*, *Hordeum vulgare*, *Triticum aestivum, Panicum virgatum, Medicago truncatula, Physcomitrium patens, Solanum tuberosum, Nicotiana tabacum, Solanum lycopersicum, Setaria viridis*, *Sorghum bicolor*, *Oryza sativa*.

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

Application Example



Chl: 4 µl total chloroplast protein from *Arabidopsis thaliana*.

Electrophoresis: 15% SDS-PAGE

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

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

Primary antibody: 1:5000 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.