

Anti-PsaA subunit of Photosystem I antibody

Catalog: PHY0053A

Product Information

Description:	Rabbit polyclonal antibody
Background:	Photosystem I (PSI) is a multisubunit complex that catalyses the final stage of the light reactions in chloroplasts. This protein complex has two main components forming its core complex, PsaA and PsaB. These two subunits bind most of the cofactors required for charge separation and electron transfer in PSI.
Synonyms:	PsaA, PSI-A
Immunogen:	KLH-conjugated synthetic peptide (15 aa from Central section) derived from <i>Arabidopsis thaliana</i> PsaA (ATCG00350).
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°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:	83 / 60 kDa
Confirmed Reactivity:	<i>Arabidopsis thaliana</i>
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Brassica</i>

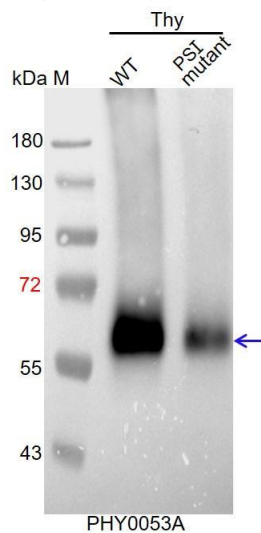
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napus, *Brassica rapa*, and 80-99% homologues with the sequence in *Medicago truncatula*, *Solanum tuberosum*, *Oryza sativa*, *Zea mays*, *Panicum virgatum*, *Sorghum bicolor*, *Populus trichocarpa*, *Hordeum vulgare*, *Cucumis sativus*, *Gossypium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

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

Application Example

Thy-WT: thylakoid membrane protein from WT of *Arabidopsis thaliana* containing 0.5 µg of chlorophyll.



Thy-PS I mutant: thylakoid membrane protein from an Arabidopsis mutant with low accumulation of PSI containing 0.5 µg of chlorophyll.

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: 1:2000 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.