

# Anti-PsaN subunit of photosystem I antibody

Catalog: PHY0123A

## Product Information

|                                 |   |
|---------------------------------|---|
| <b>Description:</b>             | Rabbit polyclonal antibody  |
| <b>Background:</b>              | Photosystem I (PSI) is a multisubunit complex that catalyses the final stage of the light reactions in chloroplasts. PsaN is the only subunit of photosystem I located entirely in the thylakoid lumen. It may be involved in the interaction between plastocyanin and the photosystem I complex. |
| <b>Synonyms:</b>                | PsaN, PSAN  |
| <b>Immunogen:</b>               | KLH-conjugated synthetic peptide of PsaN derived from <i>Arabidopsis thaliana</i> AT5G64040.  |
| <b>Form:</b>                    | Lyophilized   |
| <b>Quantity:</b>                | 150 µg  |
| <b>Purification:</b>            | Immunogen affinity purified   |
| <b>Reconstitution:</b>          | Reconstitution with 150 µl of 0.01 M sterile PBS.<br>"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".  |
| <b>Stability &amp; Storage:</b> | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -20 to -70°C as supplied.<br>6 months, -20 to -70°C under sterile conditions after reconstitution.<br>1 month, 2 to 8°C under sterile conditions after reconstitution.                     |
| <b>Shipping:</b>                | The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.   |

## Application Information

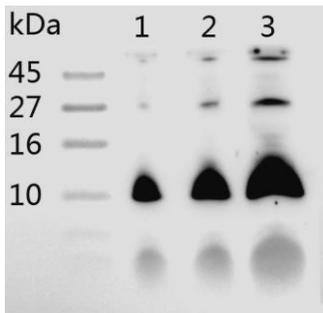
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|------------------------------|--|
| <b>Recommended Dilution:</b> | Western Blot (1:1000-1:2000)<br>Note: Optimal dilutions/concentrations should be determined by the end user.                     |
| <b>Expected/apparent MW:</b> | 19 / 10 kDa  |
| <b>Confirmed Reactivity:</b> | <i>Arabidopsis thaliana</i>  |
| <b>Predicted Reactivity:</b> | Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in |

Research Use Only

Brassica napus, Gossypium raimondii, Vitis vinifera, Medicago truncatula, Cucumis sativus, Nicotiana tabacum, Oryza sativa Japonica Group, Zea mays, Solanum tuberosum, Chlamydomonas reinhardtii.

For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).

## Application Example



1-3 is thylakoid membrane protein from *Arabidopsis thaliana* leaf containing 1 µg, 2 µg, and 5 µg of chlorophyll, respectively.

**Electrophoresis:** Tricine-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:** 1:20000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

**Detection:** using chemiluminescence substrate and image were captured with CCD camera.