

# Anti-PsbS protein antibody

Catalog: PHY0062A

## Product Information

|                                 |  |
|---------------------------------|--|
| <b>Description:</b>             | Rabbit polyclonal antibody   |
| <b>Background:</b>              | PsbS is a ubiquitous pigment-binding protein associated with photosystem II (PSII) of higher plants, which is involved in nonphotochemical quenching rather than in photosynthesis. Mutant has a normal violaxanthin cycle but has a limited capacity of quenching singlet excited chlorophylls and is tolerant to lipid peroxidation. |
| <b>Synonyms:</b>                | PsbS, 22 kDa Lhc-like PSII protein   |
| <b>Immunogen:</b>               | KLH-conjugated synthetic peptide derived of PsbS from <i>Arabidopsis thaliana</i> AT1G44575.   |
| <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> | 28 / 21 kDa  |
| <b>Confirmed Reactivity:</b> | <i>Arabidopsis thaliana</i>  |
| <b>Predicted Reactivity:</b> | Among 25 analyzed species, the sequence of the synthetic peptide   |

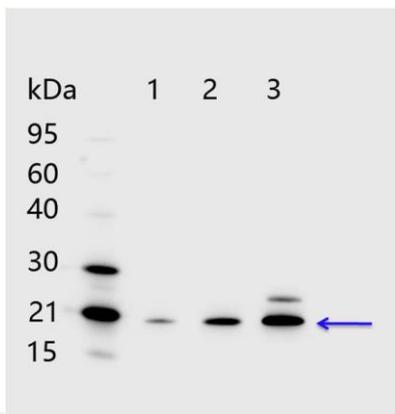
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used for immunization is 100% homologous with the sequence in *Brassica napus*, *Brassica rapa*, and 80-99% homologous with the sequence in *Gossypium raimondii*, *Solanum lycopersicum*, *Physcomitrella patens*, *Vitis vinifera*, *Populus trichocarpa*, *Solanum tuberosum*, *Nicotiana tabacum*, *Cucumis sativus*, *Glycine max*, *Oryza sativa Japonica Group*, *Zea mays*.

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

## Application Example

### Example 1



1-3 is thylakoid membrane protein from *Arabidopsis thaliana* leaf containing 0.1 µg, 0.25 µg, and 0.5 µg of chlorophyll, respectively.

**Electrophoresis:** 15% SDS-Urea-PAGE

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

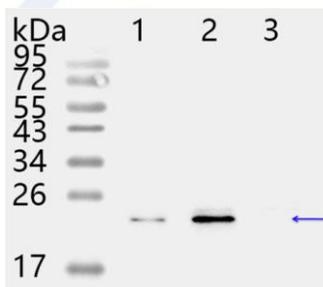
**Blocking:** 5% skim milk at RT or 4°C for 1 h.

**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.

### Example 2



1-2 is thylakoid membrane protein from WT of *Arabidopsis thaliana* leaf containing 0.25 µg and 0.5 µg of chlorophyll, respectively.

3 is thylakoid membrane protein from PSII mutant of *Arabidopsis thaliana* leaf containing 0.5 µg of chlorophyll.

**Electrophoresis:** 15% SDS-Urea-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:** 1:20000 dilution using Goat Anti-Rabbit IgG H&L(HRP) (Cat# PHY6000).

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

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