

Anti-PsbS protein antibody

Catalog: PHY0062A

Product Information

Description:	Rabbit polyclonal antibody
Background:	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.
Synonyms:	PsbS, 22 kDa Lhc-like PSII protein
Immunogen:	KLH-conjugated synthetic peptide derived of PsbS from <i>Arabidopsis thaliana</i> AT1G44575.
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:	28 / 21 kDa
Confirmed Reactivity:	<i>Arabidopsis thaliana</i>
Predicted Reactivity:	Among 25 analyzed species, the sequence of the synthetic peptide

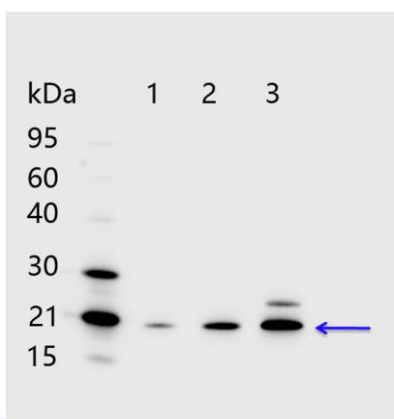
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used for immunization is 100% homologues with the sequence in *Brassica napus*, *Brassica rapa*, and 80-99% homologues with the sequence in *Gossypium raimondii*, *Solanum lycopersicum*, *Physcomitrella patens*, *Vitis vinifera*, *Populus trichocarpa*, *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.

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.

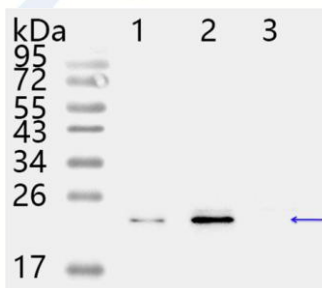
Blocking: 5% skim milk at RT or 4°C for 1 h.

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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