

Anti-PsbY subunit of Photosystem II antibody

Catalog: PHY0351S

Product Information

Description:	Rabbit polyclonal antibody
Background:	PsbY subunit is encoded by the nucleus genome and is processed into two integral membrane proteins with identical topology (PsbY-1 and PsbY-2 with molecular masses of 4.673 kDa or 4.893 kDa, respectively) after imported into the chloroplast. PsbY has been suggested to bind manganese and is important for the redox control of cytochrome b559.
Synonyms:	PsbY, PHOTOSYSTEM II BY, YCF32
Immunogen:	KLH-conjugated synthetic peptide of PsbY derived from <i>Arabidopsis thaliana</i> AT1G67740.
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°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

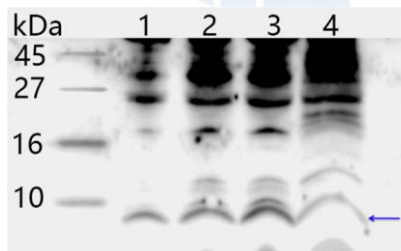
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected/apparent MW:	4.6 kDa
Confirmed Reactivity:	<i>Arabidopsis thaliana</i>

Research Use Only

Predicted Reactivity:

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

Application Example



1-3 is thylakoid membrane protein from WT of *Arabidopsis thaliana* leaf containing 2 µg, 4 µg, and 5 µg of chlorophyll, respectively.

4 is thylakoid membrane protein from *Arabidopsis* mutant with low accumulation of PSII containing 5 µg of chlorophyll.

Electrophoresis: Tricine-SDS-PAGE

PHY0351S

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: 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

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