

# Anti-Photosystem B protein 33 antibody

Catalog: PHY0305

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	PSB33 is associated with the chloroplast thylakoid membrane and provides stability to Photosystem II.
<b>Synonyms:</b>	Psb33, PHOTOSYSTEM B PROTEIN 33
<b>Immunogen:</b>	Recombinant mature PSB33 protein without chloroplast targeting peptide derived from <i>Arabidopsis thaliana</i> AT1G71500.
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Protein A purified
<b>Reconstitution:</b>	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".
<b>Stability &amp; Storage:</b>	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.
<b>Shipping:</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

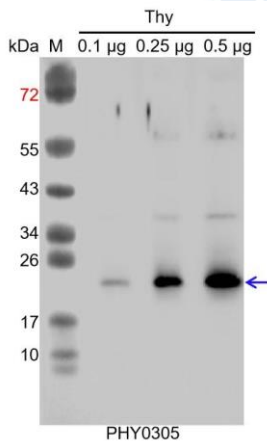
## Application Information

<b>Recommended Dilution:</b>	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
<b>Expected / apparent MW:</b>	32 / 25 kDa
<b>Confirmed Reactivity:</b>	<i>Arabidopsis thaliana</i>
<b>Predicted Reactivity:</b>	For more species homologues information, please contact tech support at <a href="mailto:tech@phytoab.com">tech@phytoab.com</a> .

Research Use Only

## Application Example

### Example 1



Thy: thylakoid membrane protein from *Arabidopsis thaliana* 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.

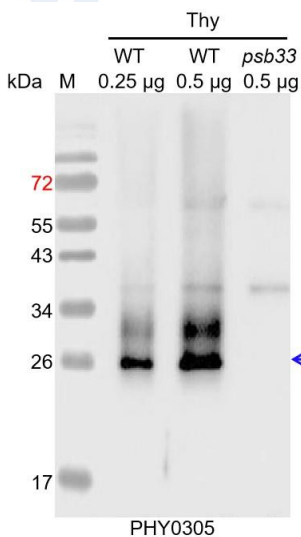
**Blocking:** 5% skim milk at RT or 4°C for 1 h.

**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



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

Thy-*psb33*: thylakoid membrane protein from *psb33* 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.