

# Anti-PsbO subunit of oxygen evolving complex of Photosystem II antibody

Catalog: PHY0344

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	<p>PsbO is an extrinsic subunit of photosystem II, which has been proposed to play a central role in stabilization of the catalytic manganese cluster.</p> <p>In <i>Arabidopsis thaliana</i>, the PsbO proteins are encoded by two genes: <i>psbO1</i>(AT5G66570) and <i>psbO2</i> (AT3G50820). PsbO1 is the major isoform in <i>Arabidopsis thaliana</i>.</p>
<b>Synonyms:</b>	<p>PsbO, OEE1, 33 kDa subunit of oxygen evolving system of photosystem II, 33 kDa thylakoid membrane protein, Manganese-stabilizing protein 1, MSP-1, OEC 33 kDa subunit, 33 kDa of the oxygen evolving complex (OEC) of PSII, Oxygen-evolving enhancer protein 1, chloroplastic</p>
<b>Immunogen:</b>	Recombinant, full length PsbO of <i>Arabidopsis thaliana</i> AT5G66570.
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Protein A purified
<b>Reconstitution:</b>	<p>Reconstitution with 150 µl of 0.01 M sterile PBS.</p> <p>"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".</p>
<b>Stability &amp; Storage:</b>	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <p>12 months from date of receipt, -20 to -70°C as supplied.</p> <p>6 months, -20 to -70°C under sterile conditions after reconstitution.</p> <p>1 month, 2 to 8°C under sterile conditions after reconstitution.</p>
<b>Shipping:</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

## Application Information

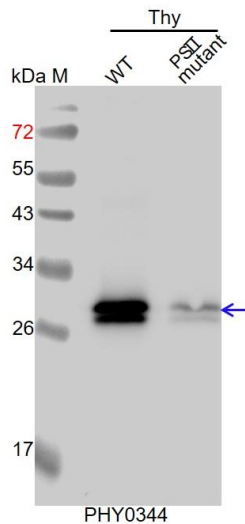
<b>Recommended Dilution:</b>	<p>Western Blot (1:1000-1:4000)</p> <p>Note: Optimal dilutions/concentrations should be determined by the end user.</p>
<b>Expected / apparent MW:</b>	35 / 28 kDa

Research Use Only

**Confirmed Reactivity:** *Arabidopsis thaliana*

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

## Application Example



Thy-WT: thylakoid membrane protein from WT of *Arabidopsis thaliana* containing 0.1 µg of chlorophyll.

Thy-PSI mutant: thylakoid membrane protein from an *Arabidopsis* mutant with low accumulation of PSI containing 0.1 µg of chlorophyll.

**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:** 1:4000 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.