

# Anti-LHCB4.1/2 protein of LHCII antibody

Catalog: PHY0044A

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	The light-harvesting complex (LHC) functions as a light receptor; it captures and delivers excitation energy to photosystems. Lhcb4 (CP29) is one of the 3 minor chlorophyll a/b-binding proteins associated with PSII in plants and algae. CP29 facilitates the State 1 to State 2 transition, where State I is induced by excess photosystem I (PSI) light and State 2 is induced by excess photosystem II (PSII) light.
<b>Synonyms:</b>	Lhcb4, Chlorophyll a-b binding protein CP29
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> LHCB4.1 (AT5G01530) and LHCB4.2 (AT3G08940).
<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. "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>	31 kDa
<b>Confirmed Reactivity:</b>	<i>Arabidopsis thaliana</i>

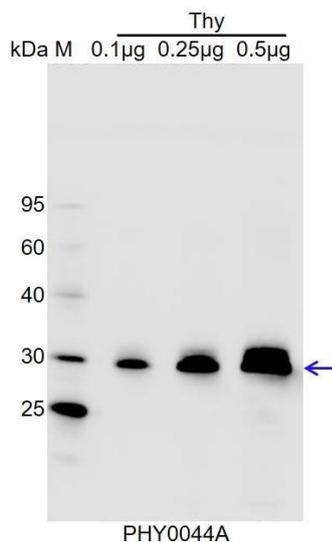
Research Use Only

### Predicted Reactivity:

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Brassica napus*, *Medicago truncatula*, *Brassica rapa*, and 80-99% homologues with the sequence in *Spinacia oleracea*, *Vitis vinifera*, *Physcomitrium patens*, *Zea mays*, *Glycine max*, *Setaria viridis*, *Oryza sativa Japonica Group*, *Panicum virgatum*, *Sorghum bicolor*, *Populus trichocarpa*, *Gossypium raimondii*, *Nicotiana tabacum*, *Solanum lycopersicum*, *Cucumis sativus*, *Solanum tuberosum*, *Hordeum vulgare subsp. vulgare*, *Triticum aestivum*.

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

### Application Example



Thy: thylakoid membrane protein from *Arabidopsis thaliana* containing 0.1 µg, 0.25 µg, 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:** 1:2000 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.