

# Anti-Lhcb1 protein of LHCII antibody

Catalog: PHY3666A

## 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 photosystem. Lhcb1, Lhcb2 and Lhcb3 are the major pigment-binding proteins which are encoded by Lhcb1, Lhcb2 and Lhcb3 genes, respectively. Lhcb1 and Lhcb2 are the most abundant proteins in the light harvesting antenna complex.
<b>Synonyms:</b>	Lhcb1
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (15 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> LHCB1.1 (AT1G29920), LHCB1.2 (AT1G29910), LHCB1.3 (AT1G29930), LHCB1.4 (AT2G34430) and LHCB1.5 (AT2G34420).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Immunogen affinity purified
<b>Reconstitution:</b>	Reconstitution with 150 µl of sterile 1XPBS (PH=7.4). "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>	28 kDa
<b>Predicted Reactivity:</b>	Among species analyzed, the sequence of the synthetic peptide used

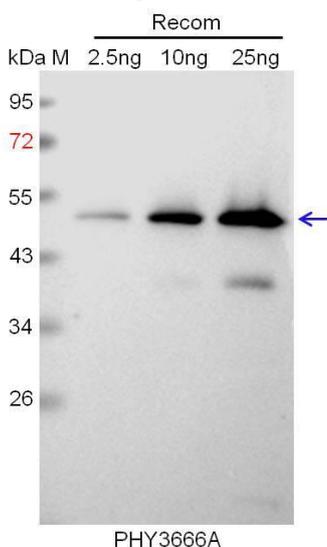
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for immunization is 100% homologues with the sequence in *Brassica napus*, *Solanum tuberosum*, *Brassica rapa*, *Solanum lycopersicum*, *Medicago truncatula*, *Nicotiana tabacum*, *Glycine max*, *Gossypium raimondii*, *Spinacia oleracea*, *Oryza sativa*,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

The sequence of the synthetic peptide used for immunization is 93% (14/15) homologues with the sequence in LHCB2.1 (AT2G05100), LHCB2.2 (AT2G05070), LHCB2.3 (AT3G27690), and 87% (13/15) homologues with the sequence in LHCB3.1 (AT5G54270).

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

## Application Example



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 48 kDa.

**Electrophoresis:** 12% 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:** 1:1000 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.