

Anti-Lhcb5 protein of LHCII antibody

Catalog: PHY0667S

Product Information

Description:	Rabbit polyclonal antibody
Background:	The light-harvesting complex (LHC) functions as a light receptor; it captures and delivers excitation energy to photosystem. The minor light-harvesting complexes CP24, CP26 (Lhcb5), and CP29 have been proposed to play a key role in the zeaxanthin (Zx)-dependent high light-induced regulation (NPQ) of excitation energy in higher plants.
Synonyms:	Lhcb5, LIGHT HARVESTING COMPLEX OF PHOTOSYSTEM II 5
Immunogen:	KLH-conjugated synthetic peptide (15 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> Lhcb5 (AT4G10340).
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 (1:1000-1:5000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	30 / 25 kDa
Confirmed Reactivity:	<i>Arabidopsis thaliana</i>

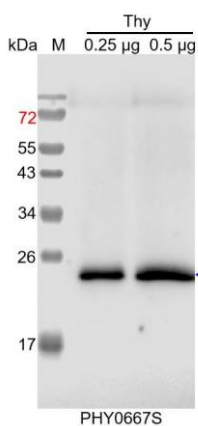
Research Use Only

Predicted Reactivity:

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

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

Application Example



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

Electrophoresis: 15% 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: 1:5000 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.