

Anti-Lhcb6 protein of LHCII antibody

Catalog: PHY0089S

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 (Lhcb6), 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:	Lhcb6, CP24, LIGHT HARVESTING COMPLEX PHOTOSYSTEM II SUBUNIT 6
Immunogen:	KLH-conjugated synthetic peptide (16 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> Lhcb6 (AT1G15820).
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 &	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Storage:	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 (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	28 / 26 kDa

Research Use Only

Confirmed Reactivity:

Arabidopsis thaliana

Predicted Reactivity:

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

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

Application Example

Example1:



Thy: thylakoid membrane protein from *Arabidopsis thaliana* containing 0.05 µg, 0.1 µg and 0.25 µg of chlorophyll, respectively.

Electrophoresis: 15% SDS-Urea-PAGE

Transfer: blotting to NC (nitrocellulose) membrane for 1 h.

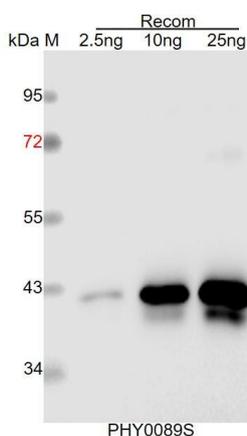
Blocking: 5% skim milk at RT or 4°C for 1 h.

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.

Example2:



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 41 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.