

Anti-Lhca1 protein of LHCI antibody

Catalog: PHY0043A

Product Information

Description:	Rabbit polyclonal antibody
Background:	The light-harvesting complex (LHC) functions as a light receptor, it captures
	and delivers excitation energy to photosystems with which it is closely
	associated. The light-harvesting protein Lhca1 is one of the four main and
	highly conserved types of chlorophyll a/b-binding proteins (Lhca1-4) of the light
	harvesting antenna (LHCI) of plant photosystem I. Lhca1 is imported as a
	precursor from the cytosol into the chloroplast. Upon insertion into the thylakoid
	membrane Lhca1 forms a heterodimer (LHCI-730) with Lhca4 that associates
	with the PSI core close to PsaG and PsaF.
Synonyms:	Lhca1, PHOTOSYSTEM I LIGHT HARVESTING COMPLEX GENE 1
Immunogen:	KLH-conjugated synthetic peptide of Lhca1 (13 aa from N terminal section)
	derived from Arabidopsis thaliana (AT3G54890).
Form:	Lyophilized
Quantity:	150 μg
Purification:	Immunogen affinity purified
Reconstitution:	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".
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:	26 / 23 kDa

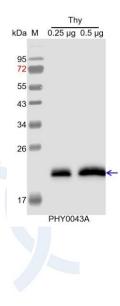


Confirmed Reactivity: Predicted Reactivity: Arabidopsis thaliana

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Solanum lycopersicum*, *Nicotiana tabacum*, and 80-99% homologues with the sequence in *Gossypium raimondii*, *Solanum tuberosum*, *Populus trichocarpa*, *Vitis vinifera*, *Brassica napus*, *Brassica rapa*, *Glycine max*, *Medicago truncatula*, *Cucumis sativus*, *Physcomitrium patens*, *Spinacia oleracea*.

For more species homologues information, please contact tech support at <u>tech@phytoab.com</u>.

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:** 1:2000 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.

PhytoAB Inc.

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