

# Anti-Lhca2 protein of LHCI antibody

Catalog: PHY2786A

### **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 Lhca2 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. Lhca2 is imported as a precursor from the	
	cytosol into the chloroplast. Upon integration in the thylakoid membrane Lhca2	
	forms a heterodimer (LHCI-680) with Lhca3 that associates with the PSI core	
	close to PsaF and PsaK.	
Synonyms:	Lhca2	
Immunogen:	KLH-conjugated synthetic peptide of Lhca2 (16 aa from central section) derived	
	from Arabidopsis thaliana (AT3G61470).	
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 $^\circ C$ as supplied.	
	6 months, -20 to -70 $^\circ C$ under sterile conditions after reconstitution.	
	1 month, 2 to 8 $^\circ$ C under sterile conditions after reconstitution.	
Shipping:	The product is shipped at 4 $^\circ\!\mathrm{C}.$ 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.
Expected / apparent MW:	28 / 24 kDa

Research Use Only



Confirmed Reactivity:

Predicted Reactivity:

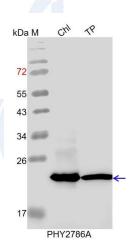
Arabidopsis thaliana

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

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

## Application Example

#### Example1:



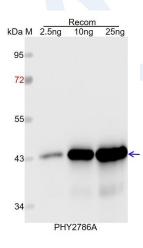
Chl: 7.5 μg total chloroplast protein from *Arabidopsis thaliana*.
TP: 15 μg total protein from *Arabidopsis thaliana*.
Electrophoresis: 15% SDS-PAGE
Transfer: blotting to NC (nitrocellulose) membrane for 1 h.
Blocking: 5% skim milk at RT or 4°C for 1 h.
Primary antibody: 1:2000 dilution overnight at 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.

#### **Research Use Only**



#### Example2:



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 44 kDa.

Electrophoresis: 12% SDS-PAGE

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

Blocking: 5% skim milk at RT or 4℃ 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.



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