

Anti-D1 subunit of Photosystem II, DE-loop antibody

Catalog: PHY5269A

Product Information

Description:	Rabbit polyclonal antibody	
Background:	Photosystem II (PSII) is a light-driven water: plastoquinone oxidoreductase that	
	uses light energy to abstract electrons from H_2O , generating O_2 and a proton	
	gradient subsequently used for ATP formation. It consists of a core antenna	
	complex that captures photons, and an electron transfer chain that converts	
	photonic excitation into a charge separation.	
Synonyms:	PsbA	
Immunogen:	KLH-conjugated synthetic peptide (19 aa from C terminal section) derived from	
	Synechocystis sp. PCC 6803 PsbA1 (slr1181) and PsbA2 (slr1311).	
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

Recommended Dilution:	Western Blot (1:1000-1:2000)
	Note: Optimal dilutions/concentrations should be determined by the
	end user.
Expected / apparent MW:	40 / 34 kDa
Confirmed Reactivity:	Synechocystis sp. PCC 6803, Arabidopsis thaliana
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used

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for immunization is 100% homologues with the sequence in *Solanum tuberosum*, *Vitis vinifera*, *Glycine max*, *Synechococcus elongatus* PCC 7942, *Triticum aestivum*, *Hordeum vulgare*, *Medicago truncatula*, *Zea mays*, *Physcomitrium patens*, *Brassica napus*, *Oryza sativa*, *Populus trichocarpa*, *Nicotiana tabacum*, *Cucumis sativus*, *Panicum virgatum*, *Chlamydomonas reinhardtii*, *Spinacia oleracea*, *Setaria viridis*, and 80-99% homologues with the sequence in *Gossypium raimondii*, *Brassica rapa*. For homologues with other species especially algae, please contact

tech support at tech@phytoab.com.

Application Example



At-Thy: thylakoid membrane protein from WT of *Arabidopsis thaliana* containing 0.25 µg and 0.5 µg of chlorophyll, respectively. PCC 6803-TP is 10 µg and 20 µg whole-cell lysate protein from WT of *Synechocystis sp.* PCC 6803, respectively. **Electrophoresis:** 15% SDS-Urea-PAGE **Transfer:** blotting to NC (nitrocellulose) membrane for 1h. **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

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