

Anti-Photosystem II reaction center protein K antibody

Catalog: PHY2593A

Product Information

Description:	Rabbit polyclonal antibody	
Background:	PsbK is PSII K protein, which is one of the components of the core complex of	
	photosystem II (PSII). 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:	PsbK, PHOTOSYSTEM II REACTION CENTER PROTEIN K PRECURSOR,	
	PSBK.	
Immunogen:	KLH-conjugated synthetic peptide (14 aa from Central section) derived from	
	Arabidopsis thaliana PsbK (ATCG00070).	
Form:	Lyophilized	
Quantity:	150 µg	
Purification:	Immunogen affinity purified	
Reconstitution:	Reconstitution with 150 μ l of 0.01M 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 $^\circ \!\! \mathbb{C}$ as supplied.	
	6 months, -20 to -70 $^\circ\!\mathrm{C}$ 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:	7 / 6 kDa

Research Use Only



Confirmed Reactivity:

Predicted Reactivity:

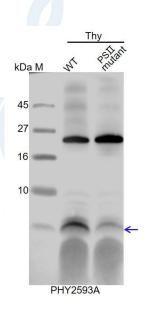
Arabidopsis thaliana

support at tech@phytoab.com.

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

Application Example

Example1:



Thy-WT: thylakoid membrane protein from WT of *Arabidopsis thaliana* containing 2.5 μg of chlorophyll. Thy-PS II : thylakoid membrane protein from an Arabidopsis mutant with low accumulation of PS II containing 2.5 μg of chlorophyll. **Electrophoresis:** Tricine-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.

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Example2:



Recom: 5 ng, 20 ng and 50 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° 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.



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