

Anti-CP47 subunit of Photosystem II antibody

Catalog: PHY3933A

Product Information

Description:	Rabbit polyclonal antibody
Background:	CP47 is one of the components of the core complex of photosystem II (PSII). It binds chlorophyll and helps catalyze the primary light-induced photochemical processes of PSII. CP47 is encoded by ATCG00680.
Synonyms:	PSBB, CP47, photosystem II reaction center protein B
Immunogen:	KLH-conjugated synthetic peptide (14 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> PSBB (ATCG00680).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen Affinity Purified
Reconstitution:	Reconstitution with 150 µl of sterile 1×PBS (PH=7.4). "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 & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 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.

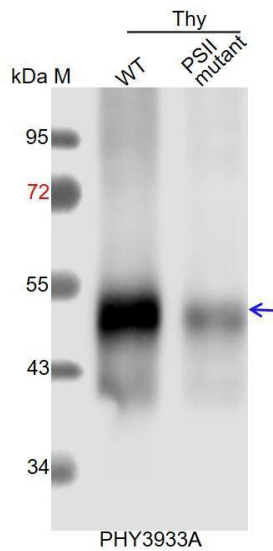
Application Information

Recommended Dilution:	Western Blot (1:1000-1:4000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	56 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Vitis vinifera</i> , <i>Solanum tuberosum</i> , <i>Spinacia oleracea</i> , <i>Populus trichocarpa</i> , <i>Oryza sativa</i> , <i>Medicago truncatula</i> , <i>Nicotiana tabacum</i> , <i>Zea mays</i> , <i>Hordeum vulgare</i> , <i>Brassica rapa</i> , <i>Triticum aestivum</i> ,

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Setaria viridis, *Gossypium raimondii*, *Glycine max*, *Leymus chinensis*, *Cucumis sativus*, *Brassica napus*, *Sorghum bicolor*, and 80-99% homologues with the sequence in *Chlamydomonas reinhardtii*. For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example



Thy-WT: thylakoid membrane protein from WT of *Arabidopsis thaliana* containing 0.25 μ g of chlorophyll.

Thy-PS II mutant: thylakoid membrane protein from an *Arabidopsis* mutant with low accumulation of PS II containing 0.25 μ g of chlorophyll.

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: 1:4000 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.