

Anti-D2 subunit of Photosystem II, DE-loop antibody

Catalog: PHY0323

Product Information

Description: Rabbit polyclonal antibody

Background: The D1/D2 (PsbA/PsbD) reaction center heterodimer binds P680, the primary

electron donor of PSII as well as several subsequent electron acceptors. D2 is

needed for assembly of a stable PSII complex.

Synonyms: PsbD

Immunogen: KLH-conjugated synthetic peptide (16 aa from C terminal section) derived from

Arabidopsis thaliana DE-loop of D2 (ATCG00270) subunit.

Form: Lyophilized

Quantity: 150 μg

Purification: Protein A purified

Reconstitution: Reconstitution with 150 µl 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°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: 40 / 30 kDa

Confirmed Reactivity: Arabidopsis thaliana

Predicted Reactivity: Among species analyzed, the sequence of the synthetic peptide used

for immunization is 100% homologues with the sequence in *Brassica* napus, *Medicago truncatula*, *Glycine max*, *Brassica rapa*, *Solanum*

tuberosum, Oryza sativa, Triticum aestivum, Sorghum bicolor,

Research Use Only



Cucumis sativus, Vitis vinifera, Hordeum vulgare, Nicotiana tabacum, Populus trichocarpa, Spinacia oleracea, Setaria viridis, Zea mays, Solanum lycopersicum, Chlamydomonas reinhardtii, Gossypium raimondii, Leymus chinensis, and 80-99% homologues with the sequence in *Physcomitrella patens*, Synechococcus elongatus PCC 7942.

For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example

Thy

kDa M

AT

REflat

72

55

43

34

26

PHY0323

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

Thy-PS II mutant: thylakoid membrane protein from an Arabidopsis mutant with low accumulation of PS II containing 0.25 µg 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.