

## Anti-D2 subunit of Photosystem II, N-terminal antibody

Catalog: PHY0090A

## **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 (15 aa from N terminal section) derived from

Arabidopsis thaliana PsbD (ATCG00270).

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°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 (1:1000-1:2000)

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, *Brassica* rapa, *Medicago* truncatula, *Solanum* tuberosum,

Oryza sativa, Sorghum bicolor, Glycine max, Cucumis sativus, Vitis

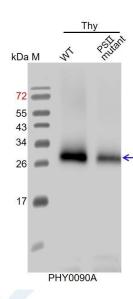
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vinifera, Nicotiana tabacum, Populus trichocarpa, Setaria viridis, Solanum lycopersicum, and 80-99% homologues with the sequence in Panicum virgatum, Spinacia oleracea, Triticum aestivum, Hordeum vulgare, Physcomitrella patens.

For more species homologues information, please contact tech support at <a href="tech@phytoab.com">tech@phytoab.com</a>.

## **Application Example**



Thy-WT: thylakoid membrane protein from WT of *Arabidopsis thaliana* containing 0.5 µg of chlorophyll.

Thy-PS II mutant: thylakoid membrane protein from an Arabidopsis mutant with low accumulation of PS II containing 0.5 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: 1:2000 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.