

## **Product information**

Antibody name: anti-PsbA-Nt (D1)

Product number: P22A-1

**Product description:** polyclonal antibody;

contains 0.01% NaN<sub>3</sub>

*Origin:* rabbit

**Immunogen:** synthetic peptide against PsbA N-terminus (a. a. 1 - 17) from *Arabidopsis thaliana* PsbA

protein

**Applications:** Western blot (1 : 2.000 for ECL)

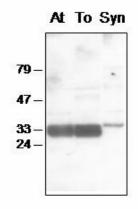
*Immunocrossreaction:* higher plants. According to sequence homology antisera may reacts in Synechocystis only with PsbA2/3 but not with PsbA1. For analysis of cyanobacterial D1 proteins the dilution 1:1.000 is recommended.

Storage: short term +4°C; long term -20°. Repeated

freezing and thawing is not recommended.

Quantity: 200 µl

Protein description: D1 is one the major proteins of the reaction centre of photosystem II which carries the Q<sub>B</sub>-binding site. D1 reduces the reaction centre P680\* and provides the ligands to the manganese cluster of the water-oxidizing complex at the lumenal side of thylakoid membrane. D1 protein is synthesized in a precursor form containing a C-terminal extension of 16 amino acid residues in cyanobacteria and 8-9 - in eukaryotes. The precursor D1 is co-translationally inserted into the thylakoid membrane and is C-terminally cleaved by CtpA protease **PNAS** (Anbudurai al.. 1994. 16. 8082 et D1 protein from higher plants and green algae can be phosphorylated by STN8 kinase (Bonardi et al., 2005, Nature 437, 1179 – 1182; Vaionen et al., 2005, J Biol. Chem. 280, 33679 - 33686).



Western blot analysis of chloroplast (*Arabidopsis* and tobacco) and *Synechocystis* thylakoid proteins with anti-PsbA-Nt

## For research purposes only

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