

At To Syn

## **Product information**

Antibody name: anti-PsbA-int (D1)

Product number: P21S-1

**Product description:** polyclonal antibody;

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

Origin: rabbit

**Immunogen:** synthetic peptide (a. a. 57 - 85) against PsbA2/3 proteins from *Synechocystis* sp. PCC 6803. The peptide is conservative in D1 protein sequences form all photosynthetic organisms

**Applications:** Western blot (1 : 1.000 for ECL)

*Immunocrossreaction:* higher plants, cyanobacteria. Antibody reacts with a 32 kDa protein in all tested photosynthetic organisms

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

freezing and thawing is not recommended.

Quantity: 200 µl

122 – 79 – 47 – 33 – 24 –

Western blot analysis of *Arabidopsis* (At), tobacco (To) chloroplast and *Synechocystis* (*Syn*) thylakoid proteins with anti-PsbA-int

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. 8082 et 16. 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).

## For research purposes only

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