

Product information

Antibody name: anti-PsbP (23 kDa protein of OEC)

Product number: P14S-1

Product description: polyclonal antibody;
contains 0.01% NaN₃

Origin: rabbit

Immunogen: recombinant PsbP protein of the
photosystem II

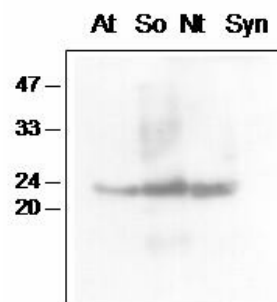
Applications: Western blot (1 : 3.000)

Immunocrossreaction: higher plants

Storage: short term +4°C; long term -20°. Repeated
freezing and thawing is not recommended.

Quantity: 100 µl

Protein description: PsbP or 23 kDa protein of oxygen evolving complex (OEC) is a peripheral component of photosystem II located at the luminal side of the thylakoid membrane. *Arabidopsis* genome encodes two PsbP proteins, PsbP1 and PsbP2. In *Arabidopsis thaliana* the loss of PsbP results in inability to grow under phototrophic conditions. The analysis of PsbP-deficient mutants demonstrated that the extrinsic protein PsbP is required for photosystem II core assembly/stability (Yi et al., 2007, J Biol. Chem.) In cyanobacteria PsbP is probably involved in the stabilisation of the charge separation in photosystem II through interaction with the Mn cluster (Sveshnikov et al., 2007, Photosynth. Res.)



Western blot analysis of
Arabidopsis (At), spinach
(So) and tobacco (Nt)
chloroplast and
Synechocystis thylakoid
proteins with anti-PsbP

For research purposes only