AntiProt

Product information

Antibody name: anti-STN8 kinase

Product number: K04A-2

Product description: polyclonal antibody; contains 0.01% NaN_3

Raised in: rabbit

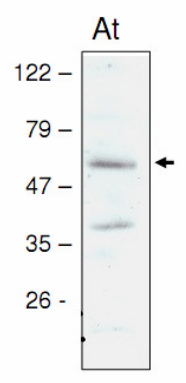
Immunogen: synthetic peptide (a. a. 425 - 438) specific for *Arabidopsis* STN8 serine/threonine protein kinase (At5g01920)

Immunodetection: Western blot (1 : 1.000 for ECL)

Immunocrossreaction: *Arabidopsis;* other species were not analysed

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

Quantity: 300 µl



Western blot analysis of *Arabidopsis* chloroplast proteins with anti-STN8 kinase

Background: Serine/threonine protein kinase (At5g01920), known as STN8 in *Arabidopsis*, and its Stl1 homologue in *Chlamydomonas*, are STN7/Stt7-like proteins that are not required for state transitions. The *Arabidopsis* mutants deficient in *stn8* gene demonstrated highly reduced levels of the phosphorylated proteins of the photosystem II (Bonardi *et al.*, 2005; Varionen *et al.*, 2005).

References:

1. Bonardi V., Pesaresi P., Becker T., Schleiff E., Wagner R., Pfannschmidt T., Jahns P. and Leister D. (2005). Photosystem II core phosphorylation and photosynthetic acclimation require two different protein kinases. *Nature* 437, 1179 – 1182.

2. Varionen J. P., Hansson M., Vener A. V. (2005) STN8 protein kinase in *Arabidopsis thaliana* is specific in phosphorylation of photosystem II core proteins. *J. Biol. Chem.* 280, 33679 – 33686.

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