

Product information

Antibody name: anti-STN7 kinase

Product number: K03A-2

Product description: polyclonal antibody;
contains 0.01% NaN₃

Raised in: rabbit

Immunogen: synthetic peptide (a. a.128 – 141)
specific for *Arabidopsis* STN7 serine/threonine kinase
(At1g68830)

Immunodetection: Western blot (1 : 1.000 for ECL)

Immunocrossreaction: *Arabidopsis*, *tobacco*; other
species were not analysed

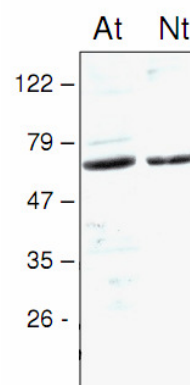
Storage: short term +4 °C; long term -20 °C. Repeated
freezing and thawing is not recommended.

Quantity: 300 µl

Background: Serine/threonine protein kinase (At1g68830), known as STN7 in *Arabidopsis*, and its Stt7 homologue in *Chlamydomonas*, is required for LHCII phosphorylation and for state transitions in *Arabidopsis* and *Chlamydomonas* (Bellaïfiore et al., 2005; Bonardi et al., 2005). The loss of this thylakoid-associated kinase blocked *stn7* (*stt7*)-deficient mutants in state 1.

References:

1. Bellaïfiore S., Barneche F., Peltier G., and Rochaix J-D. (2005) State transitions and light adaptation require chloroplast thylakoid protein kinase STN7, *Nature* 433, 892 – 895.
2. 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.



Western blot analysis of *Arabidopsis thaliana* (At) and *Nicotiana tabacum* (Nt) chloroplast proteins with anti-STN7 kinase