

## Product information

**Antibody name:** anti-Deg5

**Product number:** P05A-1

**Product description:** polyclonal antibody;  
contains 0.01% NaN<sub>3</sub>

**Origin:** rabbit

**Immunogen:** recombinant full-length Deg5 protein  
from *Arabidopsis thaliana* (At4g18365; MIPS)

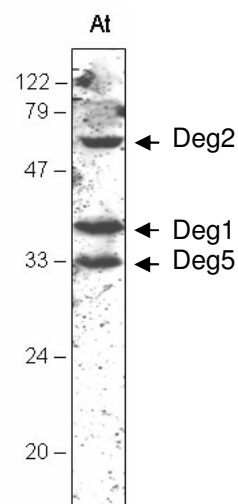
**Immunodetection:** Western blot (1 : 2.000 for ECL)

**Immunocrossreaction:** crossreacts with Deg1 and  
Deg2 from the same organism; possible crossreaction  
with Deg proteins from other higher plant species

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

**Quantity:** 100 µl

**Protein description:** Deg5 protease belongs to the family of serine-type proteases. Analysis of the *Arabidopsis* genome revealed 14 genes encoding members of Deg family. At least four Deg proteases (Deg1, Deg2, Deg5 and Deg8) are targeted to the chloroplast. Deg5 and Deg8 form a hexamer in the thylakoid lumen. Both, Deg5 and Deg8, have a synergistic function in the primary cleavage of the CD-loop of the photosystem II reaction centre protein D1 (Sun et al., 2007, Plant Cell 19, 1347 – 1361).



Western blot analysis of  
*Arabidopsis thaliana* thylakoid  
proteins with anti-Deg5

*For research purposes only*