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Product no AS19 4268
RPN12a | 26S proteasome regulatory subunit RPN12a

## Product information

Immunogen | Recombinant, full length RPN12a of Arabidopsis thaliana protein sequence UniProt: Q9SGW3-1, TAIR: At1a64520, |
| :--- |
| overexpressed in E.coli |

Host
Rabbit

## Application information

| Recommended dilution | $1: 3000$ (WB) |
| :---: | :---: |
| Expected \| apparent MW | 30,7 \| 30 kDa |
| Confirmed reactivity | Arabidopsis thaliana |
| Not reactive in | No confirmed exceptions from predicted reactivity are currently known |
| Additional information | Certain proportion of both wild-type transcript and protein is still produced in the rpn12a-1 mutant, see Figures 2B and 2C Smalle et al. (2002), PVDF membrane instead of nitrocellulose, and use the primary antibody at a 1:3000 dilution in $1 \%$ non-fat dry milk in PBS, performing just a 1 hour incubation at room temperature, so those adjustments to the protocol may also help reduce the background and increase signal intensity. <br> Recommended Western blot conditions: protein load: 10-20 $\mu \mathrm{g} / \mathrm{well}$, membrane: PVDF membrane, blocking with $10 \%$ nonfat milk 1h/RT, antibody incubation buffer: PBS-T. Primary antibody dilution: 1:3000 in PBS with non-fat dry milk incubation RT/1h, optimisation based on obtained result regarding signal/noise ratio. |
| Selected references | Smalle et al. (2002). Cytokinin growth responses in Arabidopsis involve the 26S proteasome subunit RPN12. Plant Cell 14, 17-32. |

