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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: At1g64520, overexpressed in *E.coli*
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µl
Reconstitution	For reconstitution add 50 µl, of sterile water
Storage	Store lyophilized/reconstituted at -20°C (short tem, months) or at -80°C (long term, years) ; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

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. **Recommended Western blot conditions:** protein load: 10-20 µg/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.