

Product no **AS19 4268****Anti-RPN12a | 26S proteasome regulatory subunit RPN12a****Product information**

Immunogen	Recombinant, full-length RPN12a of <i>Arabidopsis thaliana</i> protein sequence UniProt: Q9SGW3-1 , TAIR: At1g64520 , overexpressed in <i>E.coli</i>
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 term, 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	<i>Arabidopsis thaliana</i>
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 <i>rpn12a -1</i> 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	Pang et al. (2025) . The adaptor protein AP-3 disassembles heat-induced stress granules via 19S regulatory particle in <i>Arabidopsis</i> . <i>Nat Commun.</i> 2025 Feb 27;16(1):2039. doi: 10.1038/s41467-025-57306-7. Smalle et al. (2002) . Cytokinin growth responses in <i>Arabidopsis</i> involve the 26S proteasome subunit RPN12. <i>Plant Cell</i> 14, 17-32.