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Product no AS19 4262

Anti-RPT2a | Regulatory particle triple-A ATPase subunit 2a

Product information

Immunogen	Recombinant, full-lenght RPT2a of *Arabidopsis thaliana* RPT2a protein sequence UniProt: Q9SZD4-1, TAIR: At4g29040 overexpressed in *E.coli*, purified from a gel piece
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	49.4 | 50 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Brassica napus, Cajanus cajan, Gossypium hirsutum, Mucuna pruriens, Noccaea caerulescens, Vigna radiata var. radiata* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	This antibody is also recognizing RPT2b protein. **Recommended western blot conditions:** SDS-PAGE, transfer to nitrocellulose, blocking 10% non-fat milk. Diluent for both primary and secondary antibodies PBS containing 0.2% Tween 20 and 1% BSA. For an image of western blot detection, refer to: Smalle et al. (2002).
Selected references	Pang et al. (2025). The adaptor protein AP-3 disassembles heat-induced stress granules via 19S regulatory particle in Arabidopsis. Nat Commun. 2025 Feb 27;16(1):2039. doi: 10.1038/s41467-025-57306-7. Meng, Wang, Hao, et al. (2023) RNA-binding protein MAC5A interacts with the 26S proteasome to regulate DNA damage response in Arabidopsis. Plant Physiol. 2023;191(1):446-462. doi:10.1093/plphys/kiac511 Smalle et al. (2002). Cytokinin growth responses in Arabidopsis involve the 26S proteasome subunit RPN12. Plant Cell 14, 17-32.