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Product no AS09 532A

Anti-SE | Serrate RNA effector molecule (rabbit antibody)

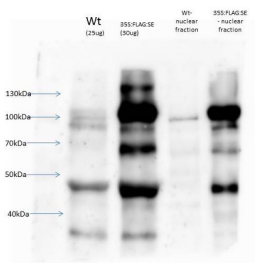
Product information

Immunogen	KLH-conjugated synthetic peptide chosen from *Arabidopsis thaliana* serrate protein sequence Q9ZVD0, At2g27100
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 50 µl of sterile water
Storage	Store lyophilized/reconstituted at -20°C; 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 : 500 (IL), 1 : 1000 (WB)
Expected | apparent MW	81 | 80 kDa
Confirmed reactivity	*Arabidopsis thaliana, Malus domestica, Nicotiana benthamina, Nicotiana tabacum*
Predicted reactivity	*Saccharum hybrid* cultivar NCo 376*, Zea mays* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	Suggested blotting conditions: 8% gel, tank blotting, 200 mA/ 1h to nitrocellulose membrane
Selected references	Zhou et al. (2024). The spliceosome-associated protein CWC15 promotes miRNA biogenesis in Arabidopsis. Nat Commun . 2024 Mar 16;15(1):2399. doi: 10.1038/s41467-024-46676-z. Li et al. (2023). JANUS, a spliceosome-associated protein, promotes miRNA biogenesis in Arabidopsis. Nucleic Acids Res . 2023 Nov 22:gkad1105. doi: 10.1093/nar/gkad1105. Li et al. (2021). In vitro Reconstitution Assays of Arabidopsis 20S Proteasome. Bio-protocol 11(7): e3967. DOI: 10.21769/BioProtoc.3967. Li et al. (2020). Apple SERRATE negatively mediates drought resistance by regulating MdMYB88 and MdMYB124 and microRNA biogenesis. Hortic Res. 2020 Jul 1;7:98.doi: 10.1038/s41438-020-0320-6. (ChIP) Li et al. (2019). Global co-transcriptional splicing in Arabidopsis and the correlation with splicing regulation in mature RNAs. Mol Plant. 2019 Nov 20. pii: S1674-2052(19)30367-3. doi: 10.1016/j.molp.2019.11.003. Wang et al. (2019). The PROTEIN PHOSPHATASE4 Complex Promotes Transcription and Processing of Primary microRNAs in Arabidopsis. Plant Cell. 2019 Feb;31(2):486-501. doi: 10.1105/tpc.18.00556. de Francisco Amorim et al. (2018). The U1 snRNP Subunit LUC7 Modulates Plant Development and Stress Responses via Regulation of Alternative Splicing. Plant Cell. 2018 Nov;30(11):2838-2854. doi: 10.1105/tpc.18.00244. Epub 2018 Oct 11.

Application example



25-30 µg of total protein from *Arabidopsis thaliana* rosette leaves was extracted with extraction buffer containing: 100 mM Tris HCl pH 7.5, 10 % sucrose, 5 mM EDTA, 5 mM EGTA, 300 mM NaCl, 0.75 % Triton X100, 0.15 % SDS, 1 mM DTT, 1x Complete Mini EDTA-free protease inhibitor (Roche) or 7.5 % nuclear fraction obtained according to the protocol from Raczyńska et al. 2014, were separated on 10 % SDS/PAGE using semi-dry transfer and blotted 1 h to PVDF. Blots were blocked with 2.5 % milk in PBS/T for overnight at 4°C with agitation. Blot was incubated in

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the primary antibody at a dilution of 1: 250 in PBS-T for 1 h at RT with agitation. Blot was incubated in secondary antibody (goat anti-rabbit HRP conjugated, AS09 602, Agrisera) in 1: 5000 dlution for 1 h at RT with agitation. The blot was washed as above and developed for 5 minutes with ECL according to manufacturer's instructions. Exposure time was 600 seconds.

Courtesy of M.Sc. Mateusz Bajczyk, Department of Gene Expression, Adam Mickiewicz University, Poland