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Product no AS18 4224

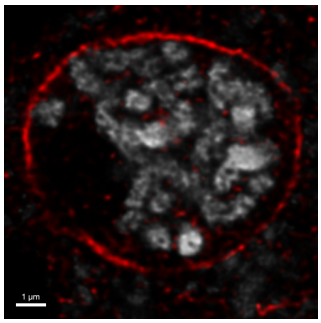
Anti-SUN1,2 | SUN domain-containing protein 1,2

Product information

Immunogen	KLH-conjugated peptide derived from N-terminus of SUN1 of *Arabidopsis thaliana* UniProt: Q9FF75 , TAIR: AT5G04990and SUN2, UniProt: Q9SG79, TAIR: AT3G10730
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	Lyophilized antibody can be stored at -20°C for up to 3 years. Re-constituted antibody can be stored at 4°C for several days to weeks. 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 : 1000 (WB)
Expected | apparent MW	51 | 56 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Arabis nemor, Eutrema salsugineum, Microthlaspi erraticum, Noccaea caerulescens* Species of your interest not listed? Contact us
Not reactive in	*Pisum sativum, Solanum lycopersicum*
Selected references	Grison et al. (2025). Root expansion microscopy: A robust method for super resolution imaging in Arabidopsis. Plant Cell . 2025 Apr 2;37(4):koaf050. doi: 10.1093/plcell/koaf050.



Immunofluorescent localization of SUN1,2 (red) on a male meiocyte from *Arabidopsis thaliana.* DAPI - grey. Detailed method can be found in Hurel et al. 2018.

Courtesy of Dr. Mathilde Crelon, INRAE, France

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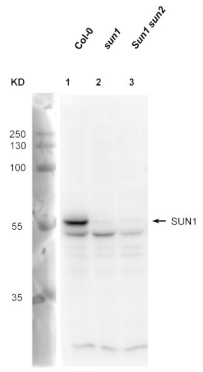

Samples:
1 - 15 ug of *Arabidopsis thaliana* Col-0 callus total protein
2 - 15 ug of *Arabidopsis thaliana sun1* mutant callus total protein
3 - 15 ug of *Arabidopsis thaliana sun1 sun2* mutant callus total protein
MW markers: PageRuler™ Plus Prestained Protein Ladder, 10 to 250 kDa (ThermoFisherScientific)

15 µg/well of total protein extracted freshly from *Arabidopsis thaliana* callus with 50 mM Tris pH7.5, 150 mM NaCl, 1 mM EGTA, 1 mM DTT, 1% TritonX-100, 0.5% sodium deoxycholate, 0.1% SDS, 1xprotease inhibitor cocktail (ThermoFisherScientific) and denatured with Bio-Rad 1x Laemmli sample buffer (BioRad) at 95°C 5 min. Samples were separated on 12% SDS-PAGE and blotted 15V, 16h to PVDF (pore size of 45 µm), using wet transfer. Blot was blocked with 5% BSA for 1h/RT agitation. Blot was incubated in the primary antibody in 2% BSA in TBS-Tat a dilution of 1: 1 000 for 1h/RT with agitation in 2% BSA with TBS-T. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in Agrisera matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated AS09 602) diluted to 1:25 000 in TBS-T for 1h/RT with agitation. The blot was washed as above and developed for 2 min with Agrisera ECLBright. Exposure time was 10 seconds.

Courtesy of Wei Wang, Umeå Plant Science Centre, Sweden