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Product no AS16 3943

SOT12 | Cytosolic Sulfotransferase 12

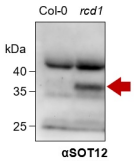
Product information

Immunogen	KLH-conjugated peptide derived from *A. thaliana* SOT12 protein sequence UniProt: P52839, TAIR: At2g03760
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 : 1500 (WB)
Expected | apparent MW	37 kDa | 35 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Arabidopsis lyrata subsp. lyrata, Arabis alpina, Brassica napus, Brassica oleracea var. oleracea, Brassica rapa subsp. pekinensis, Capsella rubella, Eutrema salsugineum, Noccaea caerulescens* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Pascual et al (2021). ACONITASE 3 is part of the ANAC017 transcription factor-dependent mitochondrial dysfunction response, Plant Physiology, 2021;, kiab225, https://doi.org/10.1093/plphys/kiab225 Shapiguzov et al. (2019). Arabidopsis RCD1 coordinates chloroplast and mitochondrial functions through interaction with ANAC transcription factors. Elife. 2019 Feb 15;8. pii: e43284. doi: 10.7554/eLife.43284

Application example



Immunoblotting of *Arabidopsis thaliana* total protein extracts with anti-SOT12 antibody (SOT12). In the image above wild-type Col-0 is presented next to the SOT12-over-expressing mutant rcd1. The fragment of this image has been published in [https://elifesciences.org/articles/43284], Fig 6B. Leaves from mature plants were harvested and snap-frozen in liquid nitrogen. Frozen leaf material was ground to fine powder. Lysis buffer was added that contained 2% SDS, 20 mM Tris-HCl (pH 7.8), and x 100 protease inhibitor cocktail (Sigma-Aldrich #P9599). Upon addition of the buffer, the samples were vigorously mixed and then incubated 20 min at +37 C. Supernatant was cleared by centrifugation for 5 min at room temperature on the desk-top mini-centrifuge at full speed. Protein concentration was measured using DC Protein Assay Kit II (Bio-Rad #5000112). Samples were equilibrated on equal protein basis. 100 µg of total protein was loaded per well. Protein was separated in precast 4-15 % gradient mini-gels (Bio-Rad #4561085DC) and transferred to PVDF membrane by wet transfer overnight at +4 C and 130 mA, in 1 x Laemmli buffer supplemented with 20 % methanol. The membrane with transferred protein was blocked for 1 hour in TBS/Tween-20 (0.01 %) with 3 % BSA. SOT12 antibody (diluted x 1 500 in 3 % BSA/TBS/Tween) was added, followed by overnight incubation at +4 C. The membrane was washed 6 x 5 minutes with TBS/Tween. Secondary anti-rabbit HRP-conjugated antibody was added, diluted x 5 000 in 3 % BSA/TBS/Tween, and the membrane was incubated for 1 hour at room temperature. The membrane was washed 6 x 5 minutes with TBS/Tween. Immunoblotting signal was detected by chemiluminescence using the chemiluminescent detection reagent and the UVP BioSpectrum imaging system. The exposure time was 2 min.

Courtesy of Dr. Alexey Shapiguzov, Helsinki University, Finland