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Product no AS12 2635

Anti-TPS1 | Trehalose-6-phosphate synthase 1

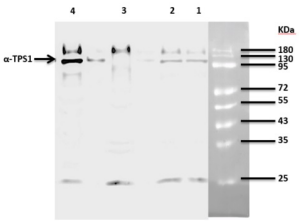
Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* TPS1, UniProt: Q9SYM4, TAIR: AT1G78580
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; 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 : 5000 (WB)
Expected | apparent MW	105.9 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Camelia sinensis, Vitis vinifera* Species of your interest not listed? Contact us
Not reactive in	*Cucumis sativus*, Monocots
Additional information	So far this antibody was not used on endogenous extracts from Arabidopsis thaliana

Application example



Total protein from *Arabidopsis thaliana* wilde type **(1,2)**, knowck out mutant **(3)** and overexpression line **(4)** were extracted with 50 mM HEPES/NaOH (pH 7.5), 1 mM EDTA, 1 mM DTT (+Protease Inhibitor cocktail) and denatured at 100°C for 5 min. Proteins were separated on 10 % SDS-PAGE and blotted overnight at 4°C to PVDF using wet tank transfer. Blots were blocked with 5 % low fat milk in 1xTBS-T for 1h at RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 overnight at 4°C with agitation in 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 secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, from Agrisera, AS09 602) diluted to 1:20 000 in 2 % low fat milk in 1xTBS for 1h at RT with agitation. The blot was washed as above and developed. Exposure time was 10 seconds.

Courtesy of Dr. Vasiliki Zacharaki, Umeå Plant Science Centre, Sweden

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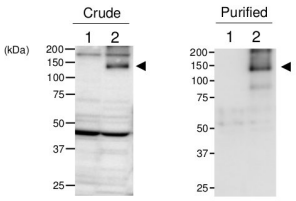

10 µg of total protein from *Nicotiana benthamiana* leaves expressing AtTPS1-GFP were separated on 10% SDS-PAGE using semi-dry transfer and blotted 1h to PVDF. Crude: non-purified material. Purified: immunoprecipitated with anti-GFP beads. Blots were blocked with 5% skimmed milk powder dissolved in TBS-T (0.1 % Tween 20) at 4°C ON with agitation. Blot was incubated in the primary antibody at a dilution of 1: 5000 for 1h at room temperature (RT) with agitation. 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 secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1: 25 000 for 1h at RT with agitation. The blot was washed as above and developed for 5 min with chemiluminescent detection reagent, according to the manufacturer's instructions. Exposure time was 30 seconds.

Courtesy of Dr. Takeo Sato, Hokkaido University, Japan