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Product no AS14 2808

Anti-Trxf1/2 | Thioredoxin F1/F2 (chloroplastic)

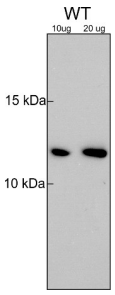
Product information

Immunogen	KLH-conjugated peptide, derived from *Arabidopsis thaliana* Trxf1 UniProt: Q9XFH9, TAIR: AT5G16400 and Trxf2 UniProt: Q9XFH8, TAIR: AT3G02730
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 : 1000 (WB)
Expected | apparent MW	19.9 | 12 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Aegilops tauschii, Brassica napus, Chlamydmonas reinhardtii, Fragaria ananassa, Glycine max, Glycine soja, Hyacinthus orientalis, Medicago truncatula, Mesembryanthemum crystallinum, Morus notabilis, Nicotiana tabacum, Oryza sativa, Pisum sativum, Populus trichocarpa, Ricinus communis, Spinacia oleracea, Theobroma cacao, Triticum urartu, Zea mays* Species of your interest not listed? Contact us
Not reactive in	*Marchantia polymorpha, Physcomitrella patens*
Additional information	5 mM DTT in extraction buffer and 5% B-ME in Lämmli buffer are recommended to use, Samples should be heated at 95°C for 2 min before loading as TRXs proteins have a tendency to oligomerize
Selected references	Diaz et al. (2020). Two chloroplast thioredoxin systems differentially modulate photosynthesis in Arabidopsis depending on light intensityand leaf age. Plant J . 2020 Nov;104(3):718-734. doi: 10.1111/tpj.14959. Nikkanen et al. (2016). Crosstalk between chloroplast thioredoxin systems in regulation of photosynthesis. Plant Cell Environ. 2016 Aug;39(8):1691-705. doi: 10.1111/pce.12718.

Application example



10 or 20 µg of soluble protein extract from WT-Col-0 *Arabidopsis thaliana* extracted in a buffer containing 50 mM HEPES, 5 mM NaCl and 10 mM MgCl2, separated on 12% SDS-PAGE and blotted 1h to PVDF using semi-dry transfer. Blots were blocked with 4% milk for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 overnight in 4°C with agitation. The antibody solution was decanted and the blot was 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 for 2h at RT with agitation. The blot was washed as above and developed for 5 min with ECL according to the manufacturer's instructions. Exposure time was 10 min.

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Courtesy of Lauri Nikkanen, University of Turku, Finland