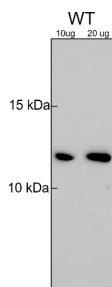


Product no **AS14 2808****Anti-Trxf1/2 | Thioredoxin F1/F2 (chloroplastic)****Product information**

<b>Immunogen</b>	KLH-conjugated peptide, derived from <i>Arabidopsis thaliana</i> Trxf1 UniProt: <a href="#">Q9XFH9</a> , TAIR: <a href="#">AT5G16400</a> and Trxf2 UniProt: <a href="#">Q9XFH8</a> , TAIR: <a href="#">AT3G02730</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Immunogen affinity purified serum in PBS pH 7.4.
<b>Format</b>	Lyophilized
<b>Quantity</b>	50 µg
<b>Reconstitution</b>	For reconstitution add 50 µl of sterile water
<b>Storage</b>	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**

<b>Recommended dilution</b>	1 : 1000 (WB)
<b>Expected   apparent MW</b>	19.9   12 kDa
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i>
<b>Predicted reactivity</b>	<i>Aegilops tauschii</i> , <i>Brassica napus</i> , <i>Chlamydomonas reinhardtii</i> , <i>Fragaria ananassa</i> , <i>Glycine max</i> , <i>Glycine soja</i> , <i>Hyacinthus orientalis</i> , <i>Medicago truncatula</i> , <i>Mesembryanthemum crystallinum</i> , <i>Morus notabilis</i> , <i>Nicotiana tabacum</i> , <i>Oryza sativa</i> , <i>Pisum sativum</i> , <i>Populus trichocarpa</i> , <i>Ricinus communis</i> , <i>Spinacia oleracea</i> , <i>Theobroma cacao</i> , <i>Triticum urartu</i> , <i>Zea mays</i>  Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	<i>Marchantia polymorpha</i> , <i>Physcomitrella patens</i>
<b>Additional information</b>	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
<b>Selected references</b>	<a href="#">Nikkanen</a> et al. (2016). Crosstalk between chloroplast thioredoxin systems in regulation of photosynthesis. <i>Plant Cell Environ.</i> 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 MgCl<sub>2</sub>, 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.

Courtesy of Lauri Nikkanen, University of Turku, Finland