

# Agrisera

This product is for research use only (not for diagnostic or therapeutic use)

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product **AS14 2809**

## TrxM1/M2 | Thioredoxin M1/M2 (chloroplastic)

### product information

<b>Background</b>	<b>TrxM1/M2 (Thioredoxin M1/M2, chloroplasticT)</b> is a thiol-disulfide oxidoreductase involved in the redox regulation of enzymes of both reductive pentose phosphate pathway (Calvin-Benson cycle) and oxidative pentose phosphate pathway. Under reducing conditions, activates the glyceraldehyde-3-phosphate dehydrogenase and the phosphoribulokinase, and inhibits the glucose-6-phosphate dehydrogenase. Activates NADP-malate dehydrogenase.
<b>Immunogen</b>	KLH-conjugated peptide, derived from <i>Arabidopsis thaliana</i> TrxM1 UniProt: <a href="#">Q4873Z</a> , TAIR: <a href="#">AT1G03680</a> and TrxM2 UniProt: <a href="#">Q9SEU8</a> , TAIR: <a href="#">AT4G03520</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Affinity purified serum in PBS, pH 7.4
<b>Format</b>	Lyophilized in PBS pH 7.4
<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 tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
<b>Tested applications</b>	Western blot (WB)
<b>Related products</b>	<a href="#">AS14 2808</a>   Anti-Trxf1/2   Thioredoxin F1/F2, chloroplastic, rabbit antibodies <a href="#">AS06 159</a>   Anti-NtrC   thioredoxin reductase (TR/TRxR), rabbit antibodies  <a href="#">Collection of antibodies to chloroplastic proteins</a>  <a href="#">Plant and algal protein extraction buffer</a>  <a href="#">Secondary antibodies</a>

### Application information

<b>Recommended dilution</b>	1 : 1000 (WB)
<b>Expected   apparent MW</b>	20   14 kDa
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i>
<b>Predicted reactivity</b>	<i>Brassica napus</i> , <i>Chlamydomonas reinhardtii</i> , <i>Hordeum vulgare</i> , <i>Oryza sativa</i> , <i>Populus balsamifera</i> , <i>Solanum lycopersicum</i> , <i>Solanum tuberosum</i> , <i>Triticum aestivum</i> , <i>Theobroma cacao</i> , <i>Zea mays</i> , <i>Viola biflora</i>
<b>Not reactive in</b>	<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.  To work with this antibody chloroplast fraction has to be used.
<b>Selected references</b>	to be added when available, antibody available in October 2015.

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## application example



7.5 and 15 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 5min with ECL according to the manufacturer's instructions. Exposure time was 10 min.

Courtesy of Lauri Nikkanen, University of Turku, Finland