Agrisera
Part of Thermo Fisher Scientific

This product is **for research use only** (not for diagnostic or therapeutic use) **contact: support@agrisera.com**

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no AS04 055

Anti-GPX | Glutathione peroxidase (chloroplastic)

Product information

Immunogen	thioredoxin fusion of 58 amino acid region between Ser at position 175 and the C-terminal Ala of *Arabidopsis thaliana* GPX7 accession At4g31870 has been used for antibody production
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	100 µl
Reconstitution	For reconstitution add 100 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 : 1, 1 : 2, 1 :4, 1 :8, 1 : 16 (ELISA), 1 : 5000 (WB)
Expected | apparent MW	25 | 20 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	This antibody is recognizing *Arabidopsis thaliana* GPX (two chloroplastic isoforms). Antibody has also a weak cross-reactivity to cytosolic forms, therefore work on isolated chloroplasts is recommended.
Selected references	Augustyniak et al. (2020). Freezing Tolerance of Lolium multiflorum/Festuca arundinacea Introgression Forms is Associated with the High Activity of Antioxidant System and Adjustment of Photosynthetic Activity under Cold Acclimation. Int J Mol Sci. 17;21(16):5899. Lepistö et al. (2013). Deletion of chloroplast NADPH-dependent thioredoxin reductase results in inability to regulate starch synthesis and causes stunted growth under short-day photoperiods. J Exp Bot. July 23. Juszczak et al. (2012). Natural genetic variation in the expression regulation of the chloroplast antioxidant system among Arabidopsis thaliana accessions. Physiol. Plant.