

product **AS04 055**

GPX | chloroplastic glutathione peroxidase

product information

background	GPX belongs to the group of enzymes that protect cells against oxidative damage generated by reactive oxygen species (ROS). Glutathione peroxidase catalyzes the reduction of H ₂ O ₂ , organic hydroperoxides, and lipid peroxides in the presence of glutathione, the hydrogen donor. Activity of the enzyme can be increased under environmental stress. Immunogen: Peptide target chosen from C-terminal of two chloroplastic isoforms of <i>Arabidopsis thaliana</i> GPX.
immunogen	thioredoxin fusion of 58 amino acid region between Ser at position 175 and the C-terminal Ala of AtGPX7 accession At4g31870 has been used for antibody production
antibody format	rabbit polyclonal serum, lyophilized
quantity	100 µl, 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 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.
tested applications	western blot (WB) ELISA (ELISA)
additional information	not available at the moment

application information

recommended dilution	1: 5000 with alkaline phosphatase system (AP) (WB), 1:1, 1:2, 1:4, 1:8, 1: 16 (ELISA)
expected apparent MW	25 20 kDa
confirmed reactivity	<i>Arabidopsis thaliana</i>
predicted reactivity	n.a.
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	This antibody is recognizing <i>Arabidopsis thaliana</i> GPX (two chloroplastic isoforms). Antibody has also a weak cross-reactivity to cytosolic forms, therefore work on isolated chloroplasts is recommended.
selected references	