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Product no AS14 2772

Anti-GOX | Glycolate oxidase 1,2,3

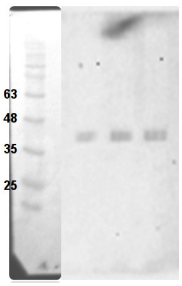
Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* GOX1 UniProt: Q9LRR9,TAIR: AT3G14420, GOX2 UniProt: Q9LRS0, TAIR: AT3G14415, GOX3 UniProt: Q24JJ8, TAIR:
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)
Confirmed reactivity	*Arabidopsis thaliana, Cyanthobasis fruticulosa, Lupinus albus, Oryza sativa, Petrosimonia nigdeensis, Pisum sativum, Salsola grandis, Salsola tragus*
Predicted reactivity	*Glycine max, Hordeum vulgare, Medicago truncatula, Nicotiana tabacum, Phaseolus vulgaris, Populus alba x tremula, Solanum lycopersicum, Solanum tuberosum, Spinacia oleracea, Triticum sp. Zea mays, Vitis vinifera* Species of your interest not listed? Contact us
Not reactive in	*Gracilaria lemaneiformis*
Selected references	Kurepa and Smalle (2023). Differential oxidative stress homeostasis in two burley tobacco varieties is linked to different peroxisomal glycolate oxidase levels. Plant Stress Volume 9, September 2023, 100194. Bapatla et al. (2021). Modulation of Photorespiratory Enzymes by Oxidative and Photo-Oxidative Stress Induced by Menadione in Leaves of Pea (Pisum sativum). Plants 10, no. 5: 987. https://doi.org/10.3390/plants10050987 Umnajkitikorn et al. (2020). Silencing of OsCV (chloroplast vesiculation) maintained photorespiration and N assimilation in rice plants grown under elevated CO2. Plant Cell Environ . 2020 Apr;43(4):920-933. doi: 10.1111/pce.13723.

application example



15 µg of total protein from *Arabidopsis thaliana* leaves extracted with 50 mM Tris-HCl (pH 7.8), 0.2% Tritin X-100, 0.1 mM EDTA and proteases inhbitors, were separated on 12 % SDS-PAGE and blotted 1h to PVDF using semi-dry or tank transfer. Blots were blocked with TBST containing 3% milk powder for 1h at room temperature (RT) and overnight at 4º with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 for 2h at RT with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 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 1h 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 from 30 seconds to 2 minutes.

Courtesy of Dr. Luisa M. Sandalio-González, CSIC, Spain