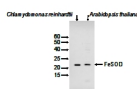


Product no **AS06 125****Anti-FeSOD | Chloroplastic Fe-dependent superoxide dismutase****Product information**

Immunogen	Overexpressed <i>Chlamydomonas reinhardtii</i> thioredoxine fusion protein A8IGH1 , FeSOD excised from a gel piece
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µl
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 : 1500-1 : 5000 (WB)
Expected apparent MW	25 22 kDa
Confirmed reactivity	<i>Armeria maritima</i> , <i>Arabidopsis thaliana</i> , <i>Brassica juncea</i> , <i>Chlamydomonas reinhardtii</i> , <i>Dunaliella bardawil</i> , <i>Dunaliella salina</i> , <i>Fremyella diplosiphon</i> , <i>Hordeum vulgare</i> , <i>Medicago sativa</i> , <i>Morus</i> spp., <i>Oryza sativa</i> , <i>Salicornia</i> sp., <i>Solanum tuberosum</i> , winter triticale, <i>Zea mays</i>
Predicted reactivity	Algae, <i>Dunaliella salina</i> , <i>Glycine max</i> , <i>Helianthus annuus</i> , <i>Marchantia polymorpha</i> , <i>Nannochloropsis gaditana</i> , <i>Solanum lycopersicum</i> , <i>Physcomitrium patens</i> , <i>Pinus pinaster</i> , <i>Populus balsamifera</i> , <i>Vitis vinifera</i> , <i>Volvox carteri</i>
	Species of your interest not listed? Contact us
Not reactive in	<i>Spinacia oleracea</i>
Additional information	The antibody will detect FeSOD enzyme only in plants grown on low Cu (0.1 µM). Reference: Salah et al (2005) Two P-type ATPases are required for copper delivery in Arabidopsis thaliana chloroplasts. Plant Cell, 17, 1233-1251 Out of three FeSOD isoforms, FeSOD2 and FeSOD3 are not expressed in the roots. In roots of Arabidopsis thaliana, FeSOD1 is detected Takáč et al. (2018) This product can be sold containing ProClin if requested
Selected references	Holzner et al. (2026). The chloroplast ionome shines light on the dynamics of organellar iron homeostasis. Plant Cell. 2026 Jan 29:koag017. doi: 10.1093/plcell/koag017. Melicher et al. (2025). RACK1A interacts and co-localizes with FSD1 in stress granules to regulate salt stress response in Arabidopsis. Plant Physiol. 2025 Dec 17:kiaf659. doi: 10.1093/plphys/kiaf659. Krupinska et al. (2025). Iron allocation to chloroplast proteins depends on the DNA-binding protein WHIRLY1. Planta. 2025 Jun 17;262(2):32. doi: 10.1007/s00425-025-04736-8. Burlacot et al. (2022) Alternative photosynthesis pathways drive the algal CO2-concentrating mechanism. Nature 605, 366–371 (2022). https://doi.org/10.1038/s41586-022-04662-9 Konkolewska et al. (2020). Combined use of companion planting and PGPR for the assisted phytoextraction of trace metals (Zn, Pb, Cd). Jokej et al. (2020). Elimination of the flavodiiron electron sink facilitates long-term H2 photoproduction in green algae. Biotechnol Biofuels. 2019 Dec 5;12:280. doi: 10.1186/s13068-019-1618-1. Shull et al. (2019). Anatase TiO2 nanoparticles induce autophagy and chloroplast degradation in thale cress (Arabidopsis thaliana). Environ Sci Technol. 2019 Jul 29. doi: 10.1021/acs.est.9b01648. Mermod et al. (2019). SQUAMOSA promoter-binding protein-like 7 mediates copper deficiency response in the presence of high nitrogen in Arabidopsis thaliana. Plant Cell Rep. 2019 May 15. doi: 10.1007/s00299-019-02422-0.



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5 µg of stromal protein from (1) *Chlamydomonas reinhardtii* (left), (2) *Arabidopsis thaliana* were separated on SDS-PAGE. Primary antibodies have been used in 1: 3000.