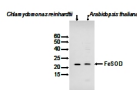


Product no **AS06 125****FeSOD | Chloroplastic Fe-dependent superoxide dismutase****Product information**

<b>Immunogen</b>	overexpressed <i>Chlamydomonas reinhardtii</i> thioredoxine fusion protein <b>A8IGH1</b> , FeSOD excised from a gel piece
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Serum
<b>Format</b>	Lyophilized
<b>Quantity</b>	50 µl
<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 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**

<b>Recommended dilution</b>	1 : 1500-1 : 5000 (WB)
<b>Expected   apparent MW</b>	25   22 kDa
<b>Confirmed reactivity</b>	<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>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>
<b>Predicted reactivity</b>	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? <a href="#">Contact us</a>
<b>Additional information</b>	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 <a href="#">Takáč et al. (2018)</a>  This product can be sold containing ProClin if requested
<b>Selected references</b>	<a href="#">Burlacot et al. (2022)</a> Alternative photosynthesis pathways drive the algal CO <sub>2</sub> -concentrating mechanism. Nature 605, 366–371 (2022). <a href="https://doi.org/10.1038/s41586-022-04662-9">https://doi.org/10.1038/s41586-022-04662-9</a> <a href="#">Konkolewska et al. (2020)</a> . Combined use of companion planting and PGPR for the assisted phytoextraction of trace metals (Zn, Pb, Cd). <a href="#">Jokej et al. (2020)</a> . Elimination of the flavodiiron electron sink facilitates long-term H <sub>2</sub> photoproduction in green algae. Biotechnol Biofuels. 2019 Dec 5;12:280. doi: 10.1186/s13068-019-1618-1. <a href="#">Shull et al. (2019)</a> . Anatase TiO <sub>2</sub> nanoparticles induce autophagy and chloroplast degradation in thale cress (Arabidopsis thaliana). Environ Sci Technol. 2019 Jul 29. doi: 10.1021/acs.est.9b01648. <a href="#">Mermod et al. (2019)</a> . 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.

**Application example**

**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.