

Product no **AS21 4523****MnSOD3 | Superoxide dismutase (Algal)****Product information**

<b>Immunogen</b>	Recombinant MnSOD3 of <i>Chlamydomonas reinhardtii</i> , product of a MSD3 gene <a href="#">Cre16.g676150</a> ; Phytozome
<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 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: 1000 (WB)
<b>Expected   apparent MW</b>	32   35 kDa
<b>Confirmed reactivity</b>	<i>Chlamydomonas reinhardtii</i>
<b>Predicted reactivity</b>	green algae Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	<i>Symbiodinium</i> sp
<b>Additional information</b>	Specific extraction method requires to be applied, check as published in <a href="#">Page et al. (2012)</a> . MnSOD3 can be only detected in Fe-limited cells (0.5 or 0.2 mM added Fe) (i.e., samples exhibiting the novel MnSOD activity) but not in cells grown with higher concentrations of added Fe.
<b>Selected references</b>	<a href="#">Page et al. (2012)</a> Fe sparing and Fe recycling contribute to increased superoxide dismutase capacity in iron-starved <i>Chlamydomonas reinhardtii</i> . Plant Cell. 2012 Jun;24(6):2649-65. doi: 10.1105/tpc.112.098962. Epub 2012 Jun 8. PMID: 22685165; PMCID: PMC3406916.