

Product no **AS06 152****AOX1 | Algal Alternative oxidase 1****Product information**

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| <b>Immunogen</b>              | whole presumed mature AOX1 protein from from <i>Chlamydomonas reinhardtii</i> UniProt: <a href="#">O65000</a> fused to GST  |
| <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. |
| <b>Additional information</b> | Cellular [compartment marker] of <i>Chlamydomonas reinhardtii</i> mitochondrial inner membrane  |

**Application information**

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| <b>Recommended dilution</b>   | 1 : 10 000 (WB)  |
| <b>Expected   apparent MW</b> | 36   36 kDa ( <i>Chlamydomonas reinhardtii</i> )   |
| <b>Confirmed reactivity</b>   | <i>Chlamydomonas reinhardtii</i>   |
| <b>Predicted reactivity</b>   | <i>Aspergillus niger</i> , <i>Gonium pectorale</i> , <i>Monoraphidium neglectum</i> , <i>Nannochloropsis gaditana</i> , <i>Ostreococcus lucimarinus</i> , <i>Tetrabaena socialis</i> , <i>Volvox carteri f. nagariensis</i><br>Species of your interest not listed? <a href="#">Contact us</a>   |
| <b>Not reactive in</b>        | <i>Cyanidioschyzon merolae</i>   |
| <b>Selected references</b>    | <a href="#">Burlacot</a> et al. (2022) 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><br><a href="#">Gu</a> et al. (2021) A Lipid Bodies-Associated Galactosyl Hydrolase Is Involved in Triacylglycerol Biosynthesis and Galactolipid Turnover in the Unicellular Green Alga <i>Chlamydomonas reinhardtii</i><br><a href="#">Perlaza</a> et al. (2019). The Mars1 kinase confers photoprotection through signaling in the chloroplast unfolded protein response. Elife. 2019 Oct 15;8. pii: e49577. doi: 10.7554/eLife.49577.<br><a href="#">Kaye</a> et al. (2019). The mitochondrial alternative oxidase from <i>Chlamydomonas reinhardtii</i> enables survival in high light. J Biol Chem. 2019 Jan 25;294(4):1380-1395. doi: 10.1074/jbc.RA118.004667.<br><a href="#">Zalutskaya</a> et al. (2015). The <i>Chlamydomonas reinhardtii</i> alternative oxidase 1 is regulated by heat stress. Plant Physiol Biochem. 2015 Dec;97:229-34. doi: 10.1016/j.plaphy.2015.10.014. |