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Product no AS06 152

Anti-AOX1 | Algal Alternative oxidase 1

Product information

Immunogen	whole presumed mature AOX1 protein from from *Chlamydomonas reinhardtii* UniProt: O65000 fused to GST
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.
Additional information	Cellular [compartment marker] of Chlamydomonas reinhardtii mitochondrial inner membrane

Application information

Recommended dilution	1 : 10 000 (WB)
Expected | apparent MW	36 | 36 kDa (*Chlamydomonas reainhardii*)
Confirmed reactivity	*Chlamydomonas reinhardtii*
Predicted reactivity	*Aspergilus niger, Gonium pectorale, Monoraphidium neglectum, Nannochloropsis gaditana, Ostreococcus lucimarinus, Tetrabaena socialis, Volvox carteri f. nagariensis* Species of your interest not listed? Contact us
Not reactive in	*Cyanidioschyzon merolae*, *Cyanophora paradoxa*
Selected references	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 Gu et al. (2021) A Lipid Bodies-Associated Galactosyl Hydrolase Is Involved in Triacylglycerol Biosynthesis and Galactolipid Turnover in the Unicellular Green Alga Chlamydomonas reinhardtii Perlaza 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. Kaye et al. (2019). The mitochondrial alternative oxidase from Chlamydomonas reinhardtii enables survival in high light.J Biol Chem. 2019 Jan 25;294(4):1380-1395. doi: 10.1074/jbc.RA118.004667. Zalutskaya et al. (2015). The Chlamydomonas reinhardtii alternative oxidase 1 is regulated by heat stress. Plant Physiol Biochem. 2015 Dec;97:229-34. doi: 10.1016/j.plaphy.2015.10.014.