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product **AS06 123**

CPX1 | coproporphyrinogen III oxidase, isoform 1

product information

background	**Coproporphyrinogen III oxidase** is an enzyme in the biosynthesis of tetrapyrroles. This isoform is encoded by a single nuclear gene in Chlamydomonas reinhardtii. The abundance of the protein increases in copper deficient cells. The protein is localized to the chloroplast.
immunogen	residues 32-366 from mature coproporphyrinogen III oxidase, isoform CPX1 of *Chlamydomonas reinhardtii* fused to TrxA Q9S7V1
antibody format	rabbit polyclonal serum lyophilized
quantity	100 µl for reconstitution add 100 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 tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
tested applications	western blot (WB)
additional information	to be added when available

application information

recommended dilution	1:3000 with alkaline phosphatase (WB)
expected | apparent MW	41.4 | 38 kDa
confirmed reactivity	*Chlamydomonas reinhardtii, Physcomitrella patens*
predicted reactivity	*Arabidopsis thaliana, Zea mays*
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	to be added when available
selected references	Lang, E.G.E., S.J. Mueller, S.N.W. Hoernstein, J. Porankiewicz-Asplund, M. Vervliet-Scheebaum, R. Reski (2010). Simultaneous isolation of pure and intact chloroplasts and mitochondria from moss as basis for sub-cellular proteomics. Plant Cell Reports, DOI: 10.1007/s00299-010-0935-4. (open source)

Quinn et al. (1999) Induction of Coproporphyrinogen Oxidase in Chlamydomonas Chloroplasts Occurs via Transcriptional Regulation of Cpx1 Mediated by Copper-Response Elements and Increased Translation from a Copper-Deficiency-Specific Form of the Transcript. J. Biol. Chem. 274:14444-14454.