

product **AS06 202**

Cyt c6 | thylakoid lumen cytochrome c6 protein

product information

background	Cytochrome c6 is known as a redox carrier of the thylakoid lumen of cyanobacteria and some eukaryotic algae that can substitute for plastocyanin in electron transfer. Cytochrome c6 is situated between the two membrane-bound complexes cytochrome b6f and photosystem I (PSI) in oxygenic photosynthesis. Cytochrome c6 (cyt c6) in <i>Chlamydomonas reinhardtii</i> is synthesized only under conditions of copper deficiency when plastocyanin cannot be synthesized.
immunogen	GST fusion of recombinant <i>Chlamydomonas reinhardtii</i> cytochrome c6 A8J9G6
antibody format	rabbit polyclonal serum lyophilized
quantity	200 µl for reconstitution add 200 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	cellular [compartment marker] of thylakoid lumen for <i>Chlamydomonas reinhardtii</i>

application information

recommended dilution	1 : 1 000 with alkaline phosphatase (WB)
expected apparent MW	15 kDa
confirmed reactivity	<i>Chlamydomonas reinhardtii</i>
predicted reactivity	<i>Chlorella vulgaris</i> , <i>Pediastrum duplex</i> , <i>Cladophora glomerata</i>
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	Note: antibody will work better with nitrocellulose than with PVDF membrane. Recommended load per well min. 6 µg. Primary antibody incubation needs to be done over night. For detection image please refer to the reference below
selected references	Merchant et al. (1998) Copper-Responsive Gene Expression in Photosynthetic Microorganisms. <i>Methods in Enzymology</i> 297:263-279.