

product **AS06 179**
CDJ1 | chloroplast DnaJ homolog 1

product information

background	CDJ1 is one of three zinc-finger containing J domain proteins of <i>Chlamydomonas reinhardtii</i> . This protein is found in chloroplast. In spite that CDJ1 gene is heat shock inducible it does not reflect in increased CDJ1 protein levels. CDJ1 forms complexes with plastidic HSP90C, HSP70B and CGE1 and is a new cohort protein of the chloroplast multi-chaperone complex. DnaJ/Hsp40 (heat shock protein 40) proteins are highly conserved and play crucial roles in protein translation, folding, unfolding, translocation, and degradation.
immunogen	fusion protein encoding region for the <i>Chlamydomonas reinhardtii</i> N-terminal part of CDJ1 Q66YD3 , overexpressed in <i>E.coli</i>
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) immunoprecipitation (IP)
additional information	to be added when available

application information

recommended dilution	1. 3000 with standard ECL (WB)
expected apparent MW	40 40 kDa
confirmed reactivity	<i>Chlamydomonas reinhardtii</i>
predicted reactivity	<i>Ostreococcus sp.</i>
not reactive in	higher plants
additional information	western blot has been done on 10-50 µg load per well; immunoprecipitation has been done on 5-50 µl
selected references	Willmund et al (2008) . The chloroplast DnaJ homolog CDJ1 of <i>Chlamydomonas reinhardtii</i> is part of a multichaperone complex containing HSP70B, CGE1, and HSP90C. <i>Plant Physiol.</i> 148: 2070-2082.