

product **AS08 333**

NAB1 | nucleic acid binding protein 1, Chlamydomonas

product information

background	In <i>Chlamydomonas reinhardtii</i> NAB1 (nucleic acid binding protein 1) interacts in the cytosol with mRNAs coding for light-harvesting proteins of Photosystem II. NAB1 has structural similarities (cold-shock domain, CSD) to the FRGY2-protein from <i>Xenopus laevis</i> .
immunogen	His-tagged recombinant NAB1 from <i>Chlamydomonas reinhardtii</i> (Q8GV23)
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	NAB1 can be used as a marker of cytoplasm in <i>Chlamydomonas reinhardtii</i> .

application information

recommended dilution	1: 10 000 standard ECL (WB)
expected apparent MW	26.5 kDa 26 kDa (for <i>Chlamydomonas reinhardtii</i>)
confirmed reactivity	<i>Chlamydomonas reinhardtii</i>
predicted reactivity	<i>Chlamydomonas reinhardtii</i>
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	to be added when available
selected references	<p>Blifernéz et al. (2011) Protein arginine methylation modulates light-harvesting antenna translation in <i>Chlamydomonas reinhardtii</i>. <i>Plant J.</i> 65: 119-130.</p> <p>Wobbe et al. (2009) Cysteine modification of a specific repressor protein controls the translational status of nucleus-encoded LHClI mRNAs in <i>Chlamydomonas</i>. <i>Proc. Natl. Acad. Sci. USA</i> 106: 13290-13295</p> <p>Mussnug et al. (2005) NAB1 is an RNA binding protein involved in the light-regulated differential expression of the light-harvesting antenna of <i>Chlamydomonas reinhardtii</i>. <i>Plant Cell</i> 17:3409-3421</p>

application example

Western blot obtained using **1:10000** anti-NAB1 (AS08 333) and 1:160000 AP-conjugated secondary antibody on (1) recombinant NAB1 protein, (2) cytosolic protein of *Chlamydomonas reinhardtii* wild strain Cw10, (3) NAB1-deficient strain Stm3, and (4) Stm3 complemented with NAB1.

