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Product no AS06 111

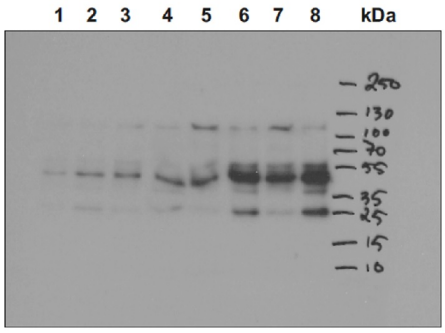
Anti-CP43' | IsiA homolog of plant CP43'

Product information

Immunogen	KLH-conjugated synthetic peptide nearly perfectly conserved across known IsiA/CP43 proteins including *Synechocystis* PCC sp. 6803 CP43' Q55274
Host	Rabbit
Clonality	Polyclonal
Purity	Antigen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
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	Peptide used to elicit this antibody is also perfectly or highly conserved in known Pcb chlorophyll a/b binding proteins from *Prochlorococcus* and similar proteins from other cyanobacteria. Peptide target is partially conserved in CP43/PsbC. CP43' and CP43 can be distinguished by their size.

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	37 | 27 kDa (in a Novex gel system)
Confirmed reactivity	*Synechocystis* sp. PCC6803
Predicted reactivity	*Acaryochloris marina, Chlamydomonas reinhardtii, Halomicronema hongdechloris,Nostoc sp.,Synechococcus elongatus* PCC 7942, *Synechocystis* sp. PCC 6803, *Thermosynechococcus elongatus* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	To be added when available. This is a re-make of the original antibody, to the same peptide, released in September 2024.



Samples: To induce CP43' expression in *Synechocystis* sp. 6803 the cells were kept for 4 days under iron-depleted conditions (Fe -) and used iron-replete cells as control (Fe +).
1 - 20 µg (Fe +)
2- 20 µg (Fe -)
3 - 30 µg (Fe +)
4 - 30 µg (Fe -)
5 - 40 µg (Fe +)
6 - 40 µg (Fe -)
7 - 50 µg (Fe+)
8 - 50 µg (Fe -)

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20-50 µg/well of total protein extracted freshly from Synechocystis sp. PCC 6803 grown under control and iron depleted conditions were isolated in buffer containing 50 mM Hepes-NaOH (pH 7.5), 30 mM CaCl2, 800mM sorbitol, 1mM -amino-n-caproic acid, and denatured with 9% -mercaptoEtOH and 1% bromophenol blue (stock 0.5%) in Lammli buffer with 6M urea at 4°C/ON. Samples were separated on 4–15% SDS-PAGE (Mini-PROTEAN® TGX™ Precast Protein Gels, Bio-Rad) and blotted for 1 h to PVDF (pore size of 0.45 µm, MIllipore), using semi-dry transfer. Blot was blocked with 5 % milk in TBS-T for 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1000 in TBS-T for ON/4°C with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, Agrisera) diluted to 1: 25,000 in TBS-T for 1h/RT with agitation. The blot was washed as above and developed with a following chemiluminescent detection reagent (ECLBright, Agrisera). Exposure times were 5 secons.

Courtesy of Dr. Tuomas Huokko, Molecular Plant Biology, Department of Life Technologies, University of Turku, Finland