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Product no AS15 2910

Anti-PntA (Slr1239) | Pyridine nucleotide transhydrogenase alpha-subunit

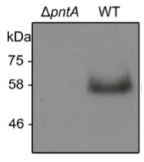
Product information

Immunogen	KLH-conjugated peptide derived from *Synechocystis* sp. PCC6803 NAD(P) transhydrogenase alpha subunit sequence, UniProt: A0A068N3D0
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen 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.

Application information

Recommended dilution	1 : 3000 (WB)
Expected | apparent MW	56 kDa
Confirmed reactivity	*Synechocystis* sp. PCC6803
Predicted reactivity	*Bacillus subtilis, Cyanothece sp.* PCC 7822, *Desulfobulbaceae bacterium* BRH_c16a, *Elusimicrobia bacterium, Fischerella sp.* JSC-11, *Hapalosiphon sp.* MRB220, *Magnetococcus marinus, Moorea producens JHB , Pleurocapsa sp.* PCC 7327, *Stanieria cyanosphaer*a Species of your interest not listed? Contact us
Not reactive in	Algae
Selected references	Kämäräinen et al. (2017). Pyridine nucleotide transhydrogenase PntAB is essential for optimal growth and photosynthetic integrity under low-light mixotrophic conditions in Synechocystis sp. PCC 6803. New Phytol. 2017 Apr;214(1):194-204. doi: 10.1111/nph.14353.

Application example



25 µg of total proteins from *Synechocystis* sp. PCC 6803 (WT) and the ΔpntA mutant extracted with buffer containing 50 mM HEPES-NaOH, pH 7.5, 30 mM CaCl2, 800 mM sorbitol and 1mM 6-aminohexanoid acid and denatured with 2xLaemli buffer at +4 °C for O/N. Proteins were separated on 12 % SDS-PAGE containing 6 M urea and blotted 1h to PVDF using semi-dry transfer. Blot was blocked with 5 % milk for 1h at room temperature (RT) with agitation. After that blot was washed with TTBS for 2 x 5 min and incubated in the primary antibody at a dilution of 1: 3000 in TTBS for O/N at +4 °C with agitation. The antibody solution was decanted and the blot was rinsed briefly with TTBS and washed 4 x 5 min with TTBS at RT with agitation. Blot was incubated in secondary antibody (Amersham ECL Rabbit IgG, HRP-linked whole Ab, from GE Healthcare) diluted to 1:10 000 in for 2h at RT with agitation. The blot was washed 3 x 5 min with TTBS and 2 x 5 min with TBS and developed for 5 min with chemiluminescent detection reagent. Exposure time was around 2 min.

Courtesy of Tuomas Huokko, University of Turku, Finland