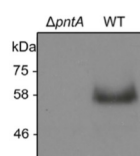


Product no **AS15 2910****PntA (Slr1239) | Pyridine nucleotide transhydrogenase alpha-subunit****Product information**

<b>Immunogen</b>	KLH-conjugated peptide derived from <i>Synechocystis</i> sp. PCC6803 NAD(P) transhydrogenase alpha subunit sequence, UniProt: <a href="#">A0A068N3D0</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Immunogen affinity purified serum in PBS pH 7.4.
<b>Format</b>	Lyophilized
<b>Quantity</b>	50 µg
<b>Reconstitution</b>	For reconstitution add 50 µl of sterile water
<b>Storage</b>	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**

<b>Recommended dilution</b>	1 : 3000 (WB)
<b>Expected   apparent MW</b>	56 kDa
<b>Confirmed reactivity</b>	<i>Synechocystis</i> sp. PCC6803
<b>Predicted reactivity</b>	<i>Bacillus subtilis</i> , <i>Cyanothece</i> sp. PCC 7822, <i>Desulfobulbaceae bacterium</i> BRH_c16a, <i>Elusimicrobia bacterium</i> , <i>Fischerella</i> sp. JSC-11, <i>Hapalosiphon</i> sp. MRB220, <i>Magnetococcus marinus</i> , <i>Moorea producens</i> JHB, <i>Pleurocapsa</i> sp. PCC 7327, <i>Stanieria cyanosphaera</i> Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	Algae
<b>Selected references</b>	<a href="#">Kämäräinen et al. (2017)</a> . Pyridine nucleotide transhydrogenase PntAB is essential for optimal growth and photosynthetic integrity under low-light mixotrophic conditions in <i>Synechocystis</i> sp. PCC 6803. <i>New Phytol.</i> 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  $\Delta pntA$  mutant extracted with buffer containing 50 mM HEPES-NaOH, pH 7.5, 30 mM CaCl<sub>2</sub>, 800 mM sorbitol and 1mM 6-aminohexanoic 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