

product **AS10 111S**
CP43' | IsiA homolog of plant CP43 protein standard

product information

background	This product is a recombinant protein standard, source: <i>Synechocystis</i> strain PCC 6803.
immunogen	does not apply
antibody format	does not apply
quantity	250 µl lyophilized, for reconstitution add 225 µl of milliQ 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)
additional information	antibodies are raised against highly conserved amino acid sequences in the IsiA protein. The IsiA protein standard can therefore be used in combination with anti-IsiA antibodies to quantitate IsiA from a range of cyanobacteria. Quantitative western blot: detailed method description .

application information

recommended dilution	standard curve: 3 loads are recommended (2.5 and 10 µl). For most applications a sample load of 0.2µg of chlorophyll will give a IsiA signal in this range. positive control: a 2µl load per well is optimal for most chemiluminescent detection systems.
expected apparent MW	27 kDa (slightly larger than native protein due to His-tag)
confirmed reactivity	does not apply
predicted reactivity	does not apply
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	Concentration: after adding 225 µl of milliQ water final concentration of the standard is 0.15 pmoles/µl Protein standard buffer composition: Glycerol 10%, Tris Base 141 mM, Tris HCl 106 mM, LDS 2%, EDTA 0.51 mM, SERVA® Blue G250 0.22 mM, Phenol Red 0.175 mM, pH 8.5, 0.1mg/ml PefaBloc protease inhibitor (Roche), 50mM DTT.

- This standard is stabilized and does not require heating before loading on the gel.
- selected references** ■ to be added when available, standard released in February 2010