

product **AS08 330S**

**PetC | Rieske iron-sulfur protein of Cyt b6/f complex, protein standard**

## product information

<b>background</b>	<b>Rieske Iron-Sulfur Protein (Q9ZR03)</b> is located in chloroplast thylakoid membrane as a component of cytochrome b6-f complex, which mediates electron transfer between photosystem II (PSII) and photosystem I (PSI), cyclic electron flow around PSI, and state transitions. Alternative names: Rieske iron-sulfur protein, RISP, ISP, plastoquinone:plastocyanin oxidoreductase iron-sulfur protein, proton gradient regulation protein 1  This is a recombinant protein standard, source: Synechocystis PCC 6803.
<b>immunogen</b>	does not apply
<b>antibody format</b>	does not apply
<b>quantity</b>	250 µl lyophilized, for reconstitution add 225 µl of milliQ water
<b>storage</b>	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.
<b>tested applications</b>	western blot (WB)
<b>additional information</b>	global antibodies are raised against highly conserved amino acid sequences in the PetC protein. The PetC protein standard can therefore be used in combination with global <a href="#">anti-PetC antibodies</a> to quantitate PetC from a wide range of species.  Quantitative western blot: <a href="#">detailed method description</a> .

## application information

<b>recommended dilution</b>	standard curve: 3 loads are recommended (0.5, 2 and 4µl). For most applications a sample load of 0.2µg of chlorophyll will give a PsbA signal in this range.  positive control: a 2µl load per well is optimal for most chemiluminescent detection systems.
<b>expected   apparent MW</b>	33 kDa (larger than native protein due to the addition of His-tag). In most gel systems, PetC protein migrates at 23 kDa
<b>confirmed reactivity</b>	does not apply
<b>predicted reactivity</b>	does not apply
<b>not reactive in</b>	no confirmed exceptions from predicted reactivity known in the moment

### additional information

**Concentration:** after adding 225  $\mu$ l of milliQ water final concentration of the standard is 0.15 pmol/ $\mu$ l

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 May 2010