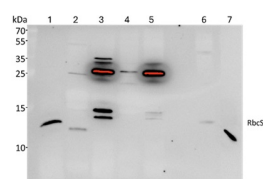


Product no **AS23 4933****Anti-RbcS I Ribulose biphosphate carboxylase small subunit (cyanobacterial)****Product information**

Immunogen	KLH-conjugated peptide derived from protein sequence of RbcS from <i>Synechococcus</i> sp. (strain WH7803), UniProt: P0A4S6
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 or deionized 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.

Application information

Recommended dilution	1 : 5000 (WB)
Expected apparent MW	12.9 kDa
Confirmed reactivity	<i>Cyanobium</i> sp. PCC 7001, <i>Halothiobacillus neapolitanus</i> , <i>Spinacia oleracea</i> (purified RbcS), <i>Synechocystis</i> sp. PCC6803, <i>Synechococcus</i> sp. PCC 7002, <i>Synechococcus</i> sp. PCC 11901
Predicted reactivity	Cyanobacteria Species of your interest not listed? Contact us
Not reactive in	<i>Chlamydomonas reinhardtii</i> , <i>Euglena gracilis</i> , <i>Synechococcus elongatus</i> PCC 7942
Additional information	Antibody reactivity to RbcS in various cyanobacterial strains has to be individually optimized.
Selected references	To be added when available, antibody available in November 2025.

**samples:**

- 1 - 29 µg of *Synechocystis* sp. PCC6803 whole cell extract.
- 2 - 14 µg of *Cyanobium* sp. PCC 7001 whole cell extract.
- 3 - 19 µg of *Synechococcus* sp. PCC 7002 whole cell extract.
- 4 - 14 µg of *Synechococcus elongatus* PCC 7942 whole cell extract. Negative control
- 5 - 14 µg of *Synechococcus* sp. PCC 11901 whole cell extract.
- 6 - *Halothiobacillus neapolitanus* whole cell extract.
- 7 - 6.8 µg of purified Rubisco from spinach leaves.

Note: Protein load/well of respective extract is not the same, therefore differences in intensity of visualized RbcS bands.

About 20 µg/well of total protein extracted freshly from respective cyanobacteria, spinach or *Halothiobacillus neapolitanus* were extracted with 50 mM Tris-HCl, pH 8.0, 20 mM MgCl₂, 20 mM NaHCO₃, 0.2 mM EDTA, and denatured with exact buffer components at 95 °C for 10 min. Samples were separated in the cold on 17% SDS-PAGE and blotted for 1 h to PVDF (pore size of 0.2 µm), using wet transfer in the cold. Blot was blocked with 5 % milk for: 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 5 000 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) diluted to 1: 5 000 in TBS for 1 h/RT with agitation. The blot was washed as above and developed with a following chemiluminescent detection reagent. Exposure time was 1 minute.



This product is **for research use only** (not for diagnostic or therapeutic use)

contact: support@agrisera.com

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Courtesy of Dr. Yu Chen, Department of Biochemistry, Cell and Systems Biology Institute of Systems, Molecular and Integrative Biology
University of Liverpool, United Kingdom