Background LHCSR3 (Stress-related chlorophyll a/b binding protein 3) plays a role in an efficient energy dissipation process, called non-photochemical quenching (NPQ), in *Chlamydomonas reinhardtii*.

Immunogen KLH-conjugated synthetic peptide derived from LHCSR3 protein sequence from *Chlamydomonas reinhardtii*, UniProt:A8J431

Host Rabbit

Clonality Polyclonal

Purity Serum

Format Lyophilized

Quantity 50 µl

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 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 ELISA (ELISA), Western blot (WB)

Related products AS14 2819 | anti-LhcSR1, rabbit antibodies

AS15 3081 | anti-LhcSR (*Physcomitrella patens*), rabbit antibodies

anti-LHC available antibodies against pigment-binding proteins including *Chlamydomonas reinhardtii*

Collection of antibodies to *Chlamydomonas* proteins

Algal protein extraction buffer

Secondary antibodies

Application information

Recommended dilution 1 : 1000 (WB)

Expected | apparent MW 28 kDa

Confirmed reactivity *Bryopsis corticulans, Chlamydomonas reinhardtii, Nannochloropsis gaditana*

Predicted reactivity *Phaeodactylum tricornutum*

Not reactive in *Arabidopsis thaliana, Neochloris oleoabundans, Physcomitrella patens*

Additional information Antibody is also recognizing recombinant LHCSR3


Application example

Follwoing samples: 0.1 µg of LhcSR3 IB + HisTag (1), 0.05 µg of LhcSR3 IB + HisTag (2), 5 µg of Chlamydomonas reinhardtii wild type (CC124) total protein extract of photoautotrophically grown cells in light intensity: 60 µE (3), 5 µg of Chlamydomonas reinhardtii wild type (CC124) total protein extract of photoautotrophically grown cells in high light intensity: 500 µE (4) were separated on 15% Tris-Glycine SDS PAGE and blotted overnight to PVDF using tank transfer. Blots were blocked with 5% BSA/milk for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 for 1h at RT 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 PBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, from Agrisera, AS09 602) diluted to 1:10 000 for 1h at RT with agitation. The blot was washed as above and developed for 5 min with ECL according to the manufacturer's instructions.

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