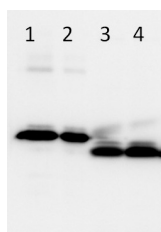


Product no **AS14 2766****LHCSR3****Product information**

Immunogen	KLH-conjugated synthetic peptide derived from LHCSR3 protein sequence from <i>Chlamydomonas reinhardtii</i> , UniProt: P0DO18
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 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

Recommended dilution	1 : 1000 (WB)
Expected apparent MW	28 kDa
Confirmed reactivity	<i>Bryopsis corticulans</i> , <i>Chlamydomonas reinhardtii</i> , <i>Nannochloropsis gaditana</i>
Predicted reactivity	<i>Phaeodactylum tricornutum</i> Species of your interest not listed? Contact us
Not reactive in	<i>Arabidopsis thaliana</i> , <i>Lobosphaera incisa</i> , <i>Marchantia polymorpha</i> , <i>Neochloris oleoabundans</i> , <i>Physcomitrella patens</i>
Additional information	This antibody is also recognizing recombinant LHCSR1 overexpressed in <i>E.coli</i> as described in Perozeni et al. (2020) .
Selected references	McQuillian et al. (2023) . Proteomic characterization of a lutein-hyperaccumulating <i>Chlamydomonas reinhardtii</i> mutant reveals photoprotection-related factors as targets for increasing cellular carotenoid content. <i>Biotechnol Biofuels Bioprod</i> . 2023 Nov 4;16(1):166. doi: 10.1186/s13068-023-02421-0. Bohmer et al. (2023) <i>Chlamydomonas reinhardtii</i> mutants deficient for Old Yellow Enzyme 3 exhibit increased photooxidative stress. <i>Plant Direct</i> . 2023;7(1):e480. Published 2023 Jan 15. doi:10.1002/pld3.480 Cazzaniga et al. (2022) . Engineering astaxanthin accumulation reduces photoinhibition and increases biomass productivity under high light in <i>Chlamydomonas reinhardtii</i> . <i>Biotechnol Biofuels Bioprod</i> . 2022 Jul 11;15(1):77. doi: 10.1186/s13068-022-02173-3. PMID: 35820961; PMCID: PMC9277849. Burlacot et al. (2022) Alternative photosynthesis pathways drive the algal CO ₂ -concentrating mechanism. <i>Nature</i> 605, 366–371 (2022). https://doi.org/10.1038/s41586-022-04662-9 Cecchin et al (2021) LPA2 protein is involved in photosystem II assembly in <i>Chlamydomonas reinhardtii</i> . <i>Plant J</i> . 2021 Jul 4. doi: 10.1111/tpj.15405. Epub ahead of print. PMID: 34218480. Roach et al. (2020) . The non-photochemical quenching protein LHCSR3 prevents oxygen-dependent photoinhibition in <i>Chlamydomonas reinhardtii</i> . <i>J Exp Bot</i> . 2020 Jan 16. pii: eraa022. doi: 10.1093/jxb/eraa022.

Application example

Following 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

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

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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.

Courtesy Dr. Roberta Croce, Biophysics of Photosynthesis Dep. Physics and Astronomy Faculty of Sciences VU University Amsterdam, The Netherlands