

Product no **AS01 011 CHLAMYset**
Set of 4 Chlamydomonas anti-Lhc antibodies

Product information

This set contains the following antibodies:

[AS01_003](#) Lhcb2 | LHCII type II chlorophyll a/b-binding protein (50 µl)

[AS06_117](#) Lhcb4 | CP29 (Lhcb4) homolog, Chlamydomonas (100 µl)

[AS09_407](#) Lhcb5 | CP26 (Lhcb5) homolog, Chlamydomonas (50 µl)

[AS09_408](#) Lhcbm5 | chlorophyll a-b binding protein of LHCII (50 µl)

Immunogen	<p>Lhcb2 - BSA-conjugated peptide</p> <p>Lhcb4 - <u>KLH</u>-conjugated synthetic peptide derived from Lhcb4 (CP29, Lhcbm4) protein sequence from <i>Chlamydomonas reinhardtii</i> (Q93WD2)</p> <p>Lhcb5 - <u>KLH</u>-conjugated synthetic peptide derived from <i>Chlamydomonas reinhardtii</i> Lhcb5 protein sequence (Q9FEK6)</p> <p>Lhcbm5 - SDS-PAGE purified polypeptide from <i>Chlamydomonas reinhardtii</i> LHCII-type II-enriched fractions</p>
Host	Rabbit
Clonality	Polyclonal
Purity	Total IgG. Protein G purified in PBS pH 7.4. (Lhcb2), serum (Lhcb4, Lhcb5, Lhcbm5).
Format	Lyophilized
Quantity	50 µl (Lhcb2, Lhcb5, Lhcbm5), 100 µl (Lhcb4)
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 : 5000 (Lhcb2, Lhcb5, Lhcbm5) (WB) 1 : 10 000 (Lhcb4) (WB)
Expected apparent MW	<p>25 kDa (Lhcb2)</p> <p>29 kDa (Lhcb4)</p> <p>29 30 kDa (Lhcbm5)</p> <p>30 26 kDa (Lhcb5)</p>
Confirmed reactivity	<i>Chlamydomonas reinhardtii</i>
Predicted reactivity	Algae (Lhcb2), Angiosperms, Dictos, Gymnosperms, Mosses
Not reactive in	Lhcb4 - higher plants (use AS04_045 for those organisms), algae, cyanobacteria
Selected references	<p>Lhcb2 Du et al. (2018). Galactoglycerolipid Lipase PGD1 Is Involved in Thylakoid Membrane Remodeling in Response to Adverse Environmental Conditions in Chlamydomonas. Plant Cell. 2018 Feb;30(2):447-465. doi: 10.1105/tpc.17.00446.</p> <p>Lhcb4 Jeong et al. (2017). Deletion of the chloroplast LTD protein impedes LHCI import and PSI-LHCI assembly in Chlamydomonas reinhardtii. J Exp Bot. 2017 Dec 30. doi: 10.1093/jxb/erx457.</p> <p>Lhcb5 and Lhcbm5 Takahashi et al. (2006). Identification of the mobile light-harvesting complex II polypeptides for state transitions in Chlamydomonas reinhardtii. PNAS 103:477-482</p>