

Product no **AS01 011set****Set of 10 plant anti-Lhca and anti-Lhcb antibodies****Product information****This set contains the following antibodies:**AS01_005, Anti-Lhca1 (0.5 mg)AS01_006, Anti-Lhca2 (0.5 mg)AS01_007, Anti-Lhca3 (0.5 mg)AS01_008, Anti-Lhca4 (0.5 mg)AS01_004, Anti-Lhcb (50 µg)AS01_003, Anti-Lhcb2 (50 µg)AS01_002, Anti-Lhcb3 (50 µg)AS04_045, Anti-Lhcb4 (0.5 mg)AS01_009, Anti-Lhcb5 (50 µl)AS01_010, Anti-Lhcb6 (50 µl)

Immunogen	BSA or KLH-conjugated synthetic peptides derived from conserved regions of plant Lhca1-4 and Lhcb1-6 protein sequences.
Host	Rabbit
Clonality	Polyclonal
Purity	Total IgG. Protein G purified in PBS pH 7.4.: AS01 005, AS01 006, AS01 007, AS01 008, AS01 002, AS04 045 affinity purified serum: AS01 004, AS01 003. Serum: AS01 009, AS01 010.
Format	Lyophilized
Quantity	0.5 mg: AS01 005, AS01 006, AS01 007, AS01 008, AS01 002, AS04 045 50 µg: AS01 004, AS01 003 50 µl: AS01 009, AS01 010
Reconstitution	For reconstitution add sterile water according to label on each tube
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 | This set contains the following antibodies:

Product number:	Product name:
<u>AS01_005</u>	Anti-Lhca1
<u>AS01_006</u>	Anti-Lhca2
<u>AS01_007</u>	Anti-Lhca3
<u>AS01_008</u>	Anti-Lhca4
<u>AS01_004</u>	Anti-Lhcb
<u>AS01_003</u>	Anti-Lhcb2
<u>AS01_002</u>	Anti-Lhcb3
<u>AS04_045</u>	Anti-Lhcb4
<u>AS01_009</u>	Anti-Lhcb5
<u>AS01_010</u>	Anti-Lhcb6

Product AS01 009 and AS01 010 can be sold containing ProClin if requested.

Expected apparent MW	20 - 29 kDa
Confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Hordeum vulgare</i> , <i>Picea abies</i> , <i>Picea glauca</i> , <i>Pinus strobus</i> , <i>Spinacia oleracea</i> , <i>Drosera capensis</i> . These antibodies have been shown to be reactive in all dicots, monocots, and gymnosperms
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	For detection of algal LHC proteins, we recommend: Set of 4 Chlamydomonas anti-Lhc antibodies
Selected references	Merry et al. (2017) . A comparison of pine and spruce in recovery from winter stress; changes in recovery kinetics, and the abundance and phosphorylation status of photosynthetic proteins during winter. <i>Tree Physiol.</i> 2017 Sep 1;37(9):1239-1250. doi: 10.1093/treephys/tpx065.

- [Li](#) et al. (2017). NYEs/SGRs-mediated chlorophyll degradation is critical for detoxification during seed maturation in Arabidopsis. *Plant J.* 2017 Nov;92(4):650-661. doi: 10.1111/tpj.13710. Epub 2017 Oct 20.
- [Yoshida](#) et al. (2016). Hisabori T1. Two distinct redox cascades cooperatively regulate chloroplast functions and sustain plant viability. *Proc Natl Acad Sci U S A.* 2016 Jul 5;113(27):E3967-76. doi: 10.1073/pnas.1604101113. Epub 2016 Jun 22.
- [Pavlovič](#) et al. (2016). A carnivorous sundew plant prefers protein over chitin as a source of nitrogen from its traps. *Plant Physiol Biochem.* 2016 Mar 5;104:11-16. doi: 10.1016/j.plaphy.2016.03.008
- [Xu](#) et al. (2011). Light-harvesting chlorophyll a/b-binding proteins are required for stomatal response to abscisic acid in Arabidopsis. *J. Ex. Bot.* Dec 5 (ahead of print).
- [Kang](#) et al. (2010). Evaluation of light-harvesting complex proteins as senescence-related protein markers in detached rice leaves. *Photosynthetica* 47, 4:638-640.