

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)

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| 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.

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| 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.