

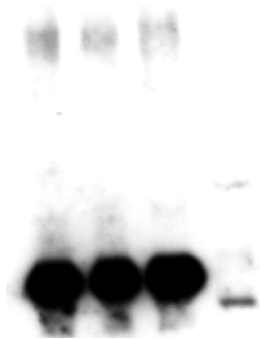
Product no **AS01 010****Lhcb6 | CP24 chlorophyll a/b-binding protein of plant PSII****Product information**

|                               |   |
|-------------------------------|---|
| <b>Immunogen</b>              | KLH-conjugated synthetic peptide derived from <i>Arabidopsis thaliana</i> Lhcb6, UniProt: <a href="#">Q9LMQ2</a> , TAIR: <a href="#">At1g15820</a> . This sequence is highly conserved in angiosperms (monocots and dicots) and gymnosperms.                                  |
| <b>Host</b>                   | Rabbit  |
| <b>Clonality</b>              | Polyclonal  |
| <b>Purity</b>                 | Serum   |
| <b>Format</b>                 | Lyophilized   |
| <b>Quantity</b>               | 50 µl   |
| <b>Reconstitution</b>         | For reconstitution add 50 µl of sterile water   |
| <b>Storage</b>                | 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. |
| <b>Additional information</b> | This product can be sold containing ProClin if requested  |

**Application information**

|                               |  |
|-------------------------------|--|
| <b>Recommended dilution</b>   | 1 : 1000-1 : 5000 (WB)   |
| <b>Expected   apparent MW</b> | 27.5   24 kDa for <i>Arabidopsis thaliana</i>  |
| <b>Confirmed reactivity</b>   | <i>Arabidopsis thaliana</i> , <i>Brassica napus</i> , <i>Camelina sinensis</i> , <i>Hordeum vulgare</i> , <i>Triticum aestivum</i> , <i>Triticale</i> , <i>Zea mays</i>  |
| <b>Predicted reactivity</b>   | Dictos, <i>Gymnosperms</i> , <i>Physcomitrium patens</i> , <i>Pisum sativum</i> , <i>Selaginella martensii</i> , <i>Spinacia oleracea</i> , <i>Solanum lycopersicum</i> ,<br>Species of your interest not listed? <a href="#">Contact us</a>   |
| <b>Not reactive in</b>        | No confirmed exceptions from predicted reactivity are currently known  |
| <b>Additional information</b> | Protein is processed into mature form ( <a href="#">Jansson 1999</a> ).<br>This antibody is a re-make of former Lhcb6 antibody from Agrisera and is made to the same peptide.  |
| <b>Selected references</b>    | <a href="#">Ye et al. (2023)</a> . The light-harvesting chlorophyll a/b-binding proteins of photosystem II family members are responsible for temperature sensitivity and leaf color phenotype in albino tea plant. <i>J Adv Res</i> . 2023 Dec 25;S2090-1232(23)00404-6. doi: 10.1016/j.jare.2023.12.017.<br><a href="#">Wójtowicz et al. (2020)</a> . Compensation Mechanism of the Photosynthetic Apparatus in <i>Arabidopsis thaliana</i> ch1 Mutants. <i>Int J Mol Sci</i> . 2020 Dec 28;22(1):221. doi: 10.3390/ijms22010221. PMID: 33379339; PMCID: PMC7794896.<br><a href="#">Chen et al. (2019)</a> . Effects of Stripe Rust Infection on the Levels of Redox Balance and Photosynthetic Capacities in Wheat. <i>Int J Mol Sci</i> . 2019 Dec 31;21(1). pii: E268. doi: 10.3390/ijms21010268.<br><a href="#">Rogowski et al. (2019)</a> . Photosynthesis and organization of maize mesophyll and bundle sheath thylakoids of plants grown in various light intensities. <i>Environmental and Experimental Botany Volume 162</i> , June 2019, Pages 72-86.<br><a href="#">Mao et al. (2018)</a> . Comparison on Photosynthesis and Antioxidant Defense Systems in Wheat with Different Ploidy Levels and Octoploid Triticale. <i>Int J Mol Sci</i> . 2018 Oct 2;19(10). pii: E3006. doi: 10.3390/ijms19103006.<br><a href="#">Du et al. (2018)</a> . Galactoglycerolipid Lipase PGD1 Is Involved in Thylakoid Membrane Remodeling in Response to Adverse Environmental Conditions in <i>Chlamydomonas</i> . <i>Plant Cell</i> . 2018 Feb;30(2):447-465. doi: 10.1105/tpc.17.00446. |

**Application example**



5 µg of total protein from *Arabidopsis thaliana* extracted with Agrisera Protein Extraction Buffer PEB ([AS08\\_300](#)) and denatured in PEB at 70°C for 5 min. were separated on 12% SDS-PAGE and blotted 1h to PVDF using semi-dry or tank transfer (blotted 15h to PVDF using tank-transfer - 30V). Blots were blocked with TBST with 4 % BSA 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 in TBS-T with 2% BSA. 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 TBS-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: 50 000 in for 1h at RT with agitation in TBS-T with 2% BSA. The blot was washed as above and developed with chemiluminescence detection reagent for 5 minutes. Exposure time was 25 seconds.

Courtesy of Dr. Robert Luciński, Department of Biology, UAM, Poznań, Poland