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Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no AS01 010

Anti-Lhcb6 | CP24 chlorphyll a/b-binding protein of plant PSII

Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* Lhcb6, UniProt: Q9LMQ2, TAIR:At1g15820. This sequence is highly conserved in angiosperms (monocots and dicots) and gymnosperms.
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.
Additional information	This product can be sold containing ProClin if requested

Application information

Recommended dilution	1 : 1000-1 : 5000 (WB)
Expected | apparent MW	27.5 | 24 kDa for *Arabidopsis thaliana*
Confirmed reactivity	*Arabidopsis thaliana, Brassica napus, Camelina sinensis, Hordeum vulgare, Triticum aestivum, Triticale, Zea mays*
Predicted reactivity	Dictos, *Gymnosperms, Physcomitrium patens, Pisum sativum, Selaginella martensii, Spinacia oleracea, Solanum lycopersicum,* , Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	Protein is processed into mature form (Jansson 1999). This antibody is a re-make of former Lhcb6 antibody from Agrisera and is made to the same peptide.
Selected references	Ferguson et al. (2025). A deficient CP24 allele defines variation for dynamic non-photochemical quenching and photosystem II efficiency in maize. Plant Cell . 2025 Apr 2;37(4):koaf063. doi: 10.1093/plcell/koaf063. . Ciesielska et al. (2024). S2P2-the chloroplast-located intramembrane protease and its impact on the stoichiometry and functioning of the photosynthetic apparatus of A. thaliana. Front Plant Sci. 2024 Mar 15:15:1372318. doi: 10.3389/fpls.2024.1372318. Ye et al. (2023). 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. J Adv Res . 2023 Dec 25:S2090-1232(23)00404-6.doi: 10.1016/j.jare.2023.12.017. Wójtowicz et al. (2020). Compensation Mechanism of the Photosynthetic Apparatus in Arabidopsis thaliana ch1 Mutants. Int J Mol Sci. 2020 Dec 28;22(1):221. doi: 10.3390/ijms22010221. PMID: 33379339; PMCID: PMC7794896. Chen et al. (2019). Effects of Stripe Rust Infection on the Levels of Redox Balance and Photosynthetic Capacities in Wheat. Int J Mol Sci. 2019 Dec 31;21(1). pii: E268. doi: 10.3390/ijms21010268. Rogowski et al. (2019). Photosynthesis and organization of maize mesophyll and bundle sheath thylakoids of plants grown in various light intensities. Environmental and Experimental Botany Volume 162, June 2019, Pages 72-86. Mao et al. (2018). Comparison on Photosynthesis and Antioxidant Defense Systems in Wheat with Different Ploidy Levels and Octoploid Triticale. Int J Mol Sci. 2018 Oct 2;19(10). pii: E3006. doi: 10.3390/ijms19103006. 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.

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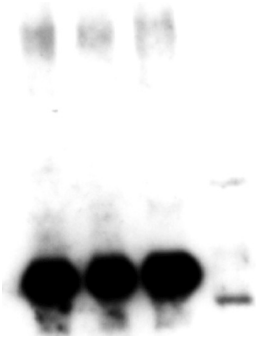

5 µg of total protein from *Arabidopsis thaliana* extracted with Agrisera Protein Extraction Buffer PEB (AS08 300) and denatured in PEB at 70°C for 5 min. were separated on 12% SDS-PAGE and blotted 1h to PVDF using semi-dry or tank transfer (blotted 15h to PVDF using tank-transfer - 30V). Blots were 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