

This product is for research use only (not for diagnostic or therapeutic use)

contact: support@agrisera.com

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

Product no AS01 009 Anti-Lhcb5 | CP26 chlorophyll a/b-binding protein of plant PSII

Product information

Immunogen	BSA-conjugated synthetic peptide derived from <i>Arabidosis thaliana</i> Lhcb5 protein UniProt: <u>Q9XF89</u> , TAIR: <u>AT4G10340</u> sequence. This sequence is highly conserved in Lhcb5 proteins from monocots, dicots and conifers but only partial conserved in <i>Physcomitrella patens</i> and <i>Chlamydomonas reinhardtii</i> .
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 (WB)
Expected apparent	

Recommended dilution	1 : 1000 (WB)
Expected apparent MW	30 25-26 kDa for Arabidopsis thaliana
Confirmed reactivity	Arabidopsis thaliana, Camelina sinensis, Echinochloa crus-galli, Hordeum vulgare, Drosera capensis, Oryza sativa, Pisum sativum, Spinacia oleracea, Triticum aestivum, triticale, Zea mays
Predicted reactivity	Dicots, Gymnosperms
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	Protein is processed into mature form (Jansson 1999).
Selected references	 <u>Krupinska</u> et al. (2025). Iron allocation to chloroplast proteins depends on the DNA-binding protein WHIRLY1. Planta. 2025 Jun 17;262(2):32. doi: 10.1007/s00425-025-04736-8. <u>Ciesielska</u> 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. <u>Ye</u> 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. <u>Ivanov</u> et al. (2022) The decreased PG content of pgp1 inhibits PSI photochemistry and limits reaction center and light-harvesting polypeptide accumulation in response to cold acclimation. Planta 255, 36 (2022). https://doi.org/10.1007/s00425-022-03819-0 <u>Wada</u> et al. (2021) Identification of a Novel Mutation Exacerbated the PSI Photoinhibition in pgr5/pgr11 Mutants; Caution for Overestimation of the Phenotypes in Arabidopsis pgr5-1 Mutant. Cells. 2021 Oct 26;10(11):2884. doi: 10.3390/cells10112884. PMID: 34831107; PMCID: PMC8616342. <u>Jeran</u> et al. (2021) The PUB4 E3 Ubiquitin Ligase Is Responsible for the Variegated Phenotype Observed upon Alteration of Chloroplast Protein Homeostasis in Arabidopsis Cotyledons. Genes (Basel). 2021 Sep 6;12(9):1387. doi: 10.3390/genes12091387. PMID: 34573369; PMCID: PMC8647772. Woitowicz 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. <u>Rogowski</u> 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.



This product is for research use only (not for diagnostic or therapeutic use)

contact: support@agrisera.com

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



Courtesy of Dr. Wioleta Wasilewska-Dębowska, Warsaw University, Poland