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

Product no AS01 007

Anti-Lhca3 | PSI type III chlorophyll a/b-binding protein

Product information

Immunogen	BSA-conjugated synthetic peptide derived from the Lhca3 protein sequence from *Arabidopsis thaliana* UniProt: Q9SY97, TAIR: At1g61520. This sequence is highly conserved in Lhcb3 proteins from angiosperms (monocots and dicots) and gymnosperms.
Host	Rabbit
Clonality	Polyclonal
Purity	Total IgG. Protein G purified in PBS pH 7.4.
Format	Lyophilized
Quantity	0.5 mg
Reconstitution	For reconstitution add 100 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.

Application information

Recommended dilution	1 : 2000-1 : 5000 (WB)
Expected | apparent MW	29 | 25 kDa for *Arabidopsis thaliana* (due to a transit peptide being cleaved off)
Confirmed reactivity	*Arabidopsis thaliana, Aracis hypogae, Bryopsis corticulans, Citrus reticulata, Hordeum vulgare, Oryza sativa, Pisum sativum, Phaseolus vulgaris, Posidonia oceanica, Spinacia oleracea, Triticum aestivum, Triticale, Zea mays*
Predicted reactivity	Dicots, Gymnosperms, *Glycine max*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	Protein is processed into mature form (Jansson 1999).
Selected references	Langin et al. (2026). Proteotoxic stress response is governed by ER-associated sorting of proteasome transcriptional activators. Mol Cell . 2026 Apr 30:S1097-2765(26)00238-8. doi: 10.1016/j.molcel.2026.04.004. Sarvari et al. (2022). Qualitative and quantitative evaluation of thylakoid complexes separated by Blue Native PAGE. Plant Methods. 2022 Mar 3;18(1):23. doi: 10.1186/s13007-022-00858-2. PMID: 35241118; PMCID: PMC8895881. Zhu et al. (2020). A NAC transcription factor and its interaction protein hinder abscisic acid biosynthesis by synergistically repressing NCED5 in Citrus reticulata. J Exp Bot. 2020 Jun 22;71(12):3613-3625.doi: 10.1093/jxb/eraa118. 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. 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. Li et al. (2018). Modulating plant growth-metabolism coordination for sustainable agriculture. Nature. 2018 Aug 15. doi: 10.1038/s41586-018-0415-5.