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

Product no AS05 059

Anti-PsbR | 10 kDa protein of PSII

Product information

Immunogen	KLH-conjugated synthetic peptide chosen from *Arabidopsis thaliana* PsbR UniProt: P27202, TAIR: At1g79040
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 : 15 000 (WB)
Expected | apparent MW	14 | 10 kDa
Confirmed reactivity	*Arabidopsis thaliana, Colobanthus quitensis, Deschampsia antarctica, Nicotiana tabacum, Oryza sativa, Pisum sativum, Spinacia oleracea, Triticum aestivum* Nicotiana tabacum, Quillaja saponaria
Predicted reactivity	*Brassica campestris, Catalpa bungei, Solanum lycopersicum, Solanum tuberosum, Vitis vinifera, Zea mays* Species of your interest not listed? Contact us
Not reactive in	*Chlamydomonas reinhardtii, Hordeum vulgare, Synechococcus* sp. PCC 7942
Selected references	Silvestre et al. (2025). A Holistic Investigation of Arabidopsis Proteomes Altered in Chloroplast Biogenesis and Retrograde Signalling Identifies PsbO as a Key Regulator of Chloroplast Quality Control. Plant Cell Environ. 2025 Aug;48(8):6373-6396. doi: 10.1111/pce.15611. Shan et al. (2024). Architecture and functional regulation of a plant PSII-LHCII megacomplex. Sci Adv. 2024 Dec 13;10(50):eadq9967. doi: 10.1126/sciadv.adq9967. Trotti et al. (2024). Physiological Responses to Salt Stress at the Seedling Stage in Wild (Oryza rufipogon Griff.) and Cultivated (Oryza sativa L.) Rice Plants (Basel). 2024 Jan 26;13(3):369. . Yang-Er Chen et al. (2017). Responses of photosystem II and antioxidative systems to high light and high temperature co-stress in wheat. J. of Exp. Botany, Volume 135, March 2017, Pages 45–55. Shen et al. (2016). The existence of C4-bundle-sheath-like photosynthesis in the mid-vein of C3 rice. Rice (N Y). 2016 Dec;9(1):20. doi: 10.1186/s12284-016-0094-5. Epub 2016 May 10. Albanese et al. (2016). Isolation of novel PSII-LHCII megacomplexes from pea plants characterized by a combination of proteomics and electron microscopy. Photosynth Res. 2016 Jan 9. Dixit (2015). Sulfur alleviates arsenic toxicity by reducing its accumulation and modulating proteome, amino acids and thiol metabolism in rice leaves. Sci Rep. 2015 Nov 10;5:16205. doi: 10.1038/srep16205. Ido et al. (2014). Cross-Linking Evidence for Multiple Interactions of the PsbP and PsbQ Proteins in a Higher Plant Photosystem II Supercomplex. J Biol Chem. 2014 Jul 18;289(29):20150-7. doi: 0.1074/jbc.M114.574822. Epub 2014 Jun 9.

Application example

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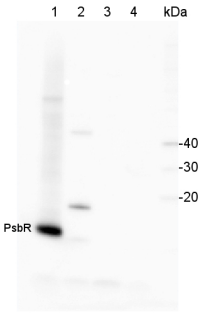

2 µg of total protein from (**1**) *Arabidopsis thaliana* leaf, (**2**) *Horderum vulgare* leaf), (**3**) *Chlamydomonas reinhardtii* total cell , (**4**) *Synechococcus* sp. 7942 total cell were all extracted with PEB (**AS08 300**) and separated on **4-12%** NuPage (Invitrogen) **LDS-PAGE** and blotted 1h to **PVDF**. Blots were blocked immediately following transfer in 2% blocking reagent in 20 mM Tris, 137 mM sodium chloride pH 7.6 with 0.1% (v/v) Tween-20 (TBS-T) for 1h at room temperature with agitation. Blots were incubated in the primary antibody at a dilution of 1: 50 000 for 1h at room temperature with agitation. 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 room temperature with agitation. Blots were incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:50 000 in 2% blocking solution for 1h at room temperature with agitation. The blots were washed as above and developed for 5 min with ECL Advance detection reagent according to the manufacturers instructions. Images of the blots were obtained using a CCD imager (FluorSMax, Bio-Rad) and Quantity One software (Bio-Rad). Exposure time was 1 second.