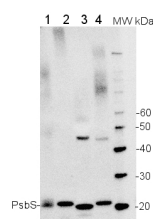


Product no **AS09 533****PsbS | 22 kDa Lhc-like PSII protein (rabbit antibody)****Product information**

Immunogen	KLH-conjugated synthetic peptide located in solubilized part of the protein, derived from available di- and monocot PsbS sequences, including <i>Arabidopsis thaliana</i> UniProt:Q9XF91, TAIR:At1g44575
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.

Application information

Recommended dilution	1 : 2000 - 1 : 10 000 (WB)
Expected apparent MW	28 22 kDa for <i>Arabidopsis thaliana</i>
Confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Brachypodium distachyon</i> , <i>Bryopsis corticulans</i> , <i>Cytisus cantabricus</i> (Wilk.) Rchb. F., <i>Deschampsia antarctica</i> , <i>Flaveria bidentis</i> , <i>Hieracium pilosella</i> L., <i>Hordeum vulgare</i> , <i>Lasallia hispanica</i> , <i>Manihot esculenta</i> , <i>Nicotiana benthamiana</i> , <i>Nicotiana tabacum</i> , <i>Oryza sativa</i> , <i>Picea abies</i> , <i>Picea glauca</i> , <i>Pinus strobus</i> , <i>Ricinus communis</i> , <i>Spinacia oleracea</i> , <i>Syntrichia muralis</i> (Hedw.) Raab, <i>Tillandsia flabellate</i> , <i>Triticum aestivum</i> , <i>Zea mays</i>
Predicted reactivity	<i>Chlamydomonas reinhardtii</i> , <i>Cucumis sativus</i> , <i>Medicago truncatula</i> , <i>Physcomitrium patens</i> , <i>Picea sitchensis</i> , <i>Pinus radiata</i> , <i>Pinus taeda</i> , <i>Populus balsamifera</i> , <i>Solanum lycopersicum</i> , <i>Tarenaya hassleriana</i> , <i>Zosteria marina</i> , <i>Vitis vinifera</i> Species of your interest not listed? Contact us
Not reactive in	<i>Lobosphaera incisa</i>
Additional information	This product can be sold containing proclin if requested
Selected references	Turc et al. (2024). Non-photochemical quenching upregulation improves water use efficiency and reduces whole plant level water consumption under drought. J Exp Bot. 2024 Mar 12;erae113. doi: 10.1093/jxb/erae113. Jiang et al. (2020). Plastid chaperone HSP90C guides precursor proteins to the SEC translocase for thylakoid transport. J Exp Bot. 2020 Aug 27;eraa399. doi: 10.1093/jxb/eraa399. Barbato et al. (2020). Higher Order Photoprotection Mutants Reveal the Importance of pH-dependent Photosynthesis-Control in Preventing Light Induced Damage to Both Photosystem II and Photosystem I. Sci Rep . 2020 Apr 21;10(1):6770. doi: 10.1038/s41598-020-62717-1. Nikkanen et al. (2018). Multilevel regulation of non-photochemical quenching and state transitions by chloroplast NADPH-dependent thioredoxin reductase. Physiol Plant. 2018 Dec 22. doi: 10.1111/ppl.12914. Chen et al. (2018). Exogenous melatonin enhances salt stress tolerance in maize seedlings by improving antioxidant and photosynthetic capacity. Physiol Plant. 2018 Apr 6. doi: 10.1111/ppl.12737. Glowacka et al. (2018). Photosystem II Subunit S overexpression increases the efficiency of water use in a field-grown crop. Nat Commun. 2018 Mar 6;9(1):868. doi: 10.1038/s41467-018-03231-x.

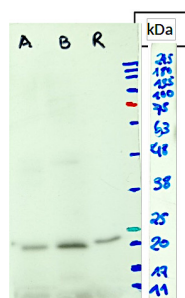


5 µg of total extract from (1) *Arabidopsis thaliana* leaf, (2) *Spinacia oleracea* (3) *Hordeum vulgare* (4) *Zea mays* extracted with PEB (**AS08 300**) were separated on 4-12% NuPage (Invitrogen) **LDS-PAGE** and blotted 1h to **PVDF**. Blots were blocked immediately following transfer in 2% ECL Advance blocking reagent (GE Healthcare) 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: 10 000 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

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Courtesy of Dr. Laura Roy, University of Amsterdam, The Netherlands



Courtesy of Dr. Nelson Saibo, Plant Gene Regulation Lab (GPlantS Unit), ITQB NOVA, Portugal