

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 AS14 2824

Anti-PsbO1 | 33 kDa of the oxygen evolving complex (OEC) of PSII

Product information

Immunogen KLH-conjugated peptide chosen chosen from Arabidopsis thaliana PsbO1, UniProt: P23321. TAIR:At5g66570

Host Rabbit

Clonality Polyclonal

Purity Serum

Format Lyophilized

Quantity 50 μl

Reconstitution For reconstitution add 50 μl of sterile water

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 1:1000 (WB)

Expected | apparent

33 | 30 kDa

Predicted reactivity Brassica napus, Capsella rubella, Triticum aestivum

Species of your interest not listed? Contact us

Not reactive in Oryza sativa

Additional information This antibody is specific to PsbO1 and does not react with PsbO2 as confirmed on a deletion mutant

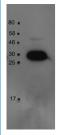
Selected references

Collombat et al. (2025). Arabidopsis conditional photosynthesis mutants abc1k1 and var2 accumulate partially processed thylakoid preproteins and are defective in chloroplast biogenesis. Commun Biol . 2025 Jan 22;8(1):111. doi: 10.1038/s42003-025-07497-y.

Shanmuqabalaji et al. (2018). Chloroplast Biogenesis Controlled by DELLA-TOC159 Interaction in Early Plant

Development. Curr Biol. 2018 Aug 20;28(16):2616-2623.e5. doi: 10.1016/j.cub.2018.06.006.

application example



30 µg of thylakoid protein from Arabidopsis thaliana Columbia-0 extracted with 330 mM sorbitol, 50 mM Hepes-KOH (pH 7.8) were separated on 15% SDS-PAGE and blotted 1h to PVDF using semi-dry transfer. Blots were blocked with 5% milk for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 for 6h at 4°C 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 RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 in 1% milk (TBS-T) for 2h at 4°C with agitation. The blot was washed as above and developed for 5 min with ECL according to the manufacturer's instructions. Exposure time was 60 seconds.

Courtesy of Dr. Peter Gollan, University of Turku, Finland