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Product no AS14 2824

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

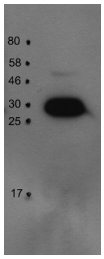
Product information

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
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 : 1000 (WB)
Expected | apparent MW	33 | 30 kDa
Confirmed reactivity	*Arabidopsis thaliana*
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. Shanmugabalaji 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