Agrisera
Part of Olink® Group

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 2825

Anti-PsbO2 | 33 kDa of the oxygen evolving complex (OEC) of PSII

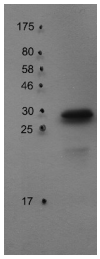
Product information

Immunogen	KLH-conjugated peptide chosen chosen from *Arabidopsis thaliana* PsbO2, UniProt:Q9S841, TAIR: At3g50820
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, dinoflagellate, Triticum aestivum* Species of your interest not listed? Contact us
Additional information	This antibody is specific to PsbO2 and does not react with PsbO1 as confirmed on deletion mutant
Selected references	Pipitone et al. (2021). A multifaceted analysis reveals two distinct phases of chloroplast biogenesis during de-etiolation in Arabidopsis. Elife. 2021 Feb 25;10:e62709. doi: 10.7554/eLife.62709. PMID: 33629953; PMCID: PMC7906606. Pralon et al. (2019). Plastoquinone homoeostasis by Arabidopsis proton gradient regulation 6 is essential for photosynthetic efficiency. Commun Biol. 2019 Jun 20;2:220. doi: 10.1038/s42003-019-0477-4.

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 minutes 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