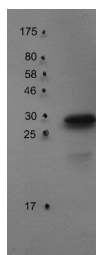


Product no **AS14 2825****PsbO2 | 33 kDa of the oxygen evolving complex (OEC) of PSII****Product information**

<b>Immunogen</b>	KLH-conjugated peptide chosen chosen from <i>Arabidopsis thaliana</i> PsbO2, UniProt: <a href="#">Q9S841</a> , TAIR: <a href="#">At3g50820</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Serum
<b>Format</b>	Lyophilized
<b>Quantity</b>	50 µl
<b>Reconstitution</b>	For reconstitution add 50 µl of sterile water
<b>Storage</b>	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**

<b>Recommended dilution</b>	1 : 1000 (WB)
<b>Expected   apparent MW</b>	33   30 kDa
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i>
<b>Predicted reactivity</b>	<i>Brassica napus</i> , <i>Capsella rubella</i> , <i>dinoflagellate</i> , <i>Triticum aestivum</i> Species of your interest not listed? <a href="#">Contact us</a>
<b>Additional information</b>	This antibody is specific to PsbO2 and does not react with PsbO1 as confirmed on deletion mutant
<b>Selected references</b>	<a href="#">Pipitone</a> et al. (2021). A multifaceted analysis reveals two distinct phases of chloroplast biogenesis during de-etiolation in <i>Arabidopsis</i> . <i>Elife</i> . 2021 Feb 25;10:e62709. doi: 10.7554/eLife.62709. PMID: 33629953; PMCID: PMC7906606. <a href="#">Pralon</a> et al. (2019). Plastoquinone homeostasis by <i>Arabidopsis</i> proton gradient regulation 6 is essential for photosynthetic efficiency. <i>Commun Biol</i> . 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