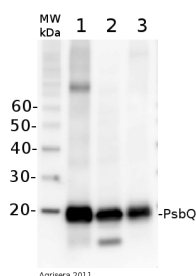


Product no **AS06 142-16****Anti-PsbQ | 16 kDa protein of the oxygen evolving complex (OEC) of PSII****Product information**

Immunogen	KLH-conjugated synthetic peptide derived from available PsbQ protein sequences including <i>Arabidopsis thaliana</i> At4g21280. Peptide used to elicit this antibody is conserved in both isoforms, <i>Arabidopsis thaliana</i> PsbQ1 and PsbQ2.
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µl
Reconstitution	For reconstitution add 200 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	23.8 16 kDa
Confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Hordeum vulgare</i> , <i>Picea abies</i> , <i>Pisum sativum</i> , <i>Triticum aestivum</i> , <i>Zea mays</i>
Predicted reactivity	<i>Catalpa bungei</i> , <i>Oryza sativa</i> , <i>Picea sitchensis</i> , <i>Populus balsamifera</i> , <i>Spinacia oleracea</i> , <i>Triticum aestivum</i> Species of your interest not listed? Contact us
Not reactive in	<i>Chlamydomonas reinhardtii</i> , <i>Physcomitrella patens</i> , <i>Zostera marina</i>
Additional information	This product can be sold with ProClin if requested
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. Charras et al. (2024) . An efficient protocol for extracting thylakoid membranes and total leaf proteins from Posidonia oceanica and other polyphenol-rich plants. Plant Methods. 2024 Mar 11;20(1):38. doi: 10.1186/s13007-024-01166-7. Trotti et al. (2024) . Physiological Responses to Salt Stress at the Seedling Stage in Wild (Oryza rufipogon Griff.) and Cultivated (Oryza sativa L.) Rice Plants (Basel). 2024 Jan 26;13(3):369. Yang-Er Chen et al. (2017) . Responses of photosystem II and antioxidative systems to high light and high temperature co-stress in wheat. J. of Exp. Botany, Volume 135, March 2017, Pages 45–55. Pavlović et al. (2016) . Light-induced gradual activation of photosystem II in dark-grown Norway spruce seedlings. Biochim Biophys Acta. 2016 Feb 18. pii: S0005-2728(16)30028-7. doi: 10.1016/j.bbabo.2016.02.009. Albanese et al. (2016) . Isolation of novel PSII-LHCII megacomplexes from pea plants characterized by a combination of proteomics and electron microscopy. Photosynth Res. 2016 Jan 9. Grassi et al. (2012) . Early events in plastid protein degradation in stay-green Arabidopsis reveal differential regulation beyond the retention of LHCII and chlorophyll. J. Proteome Res. October 2.



5 µg of total protein from *Arabidopsis thaliana* (1), *Hordeum vulgare* (2), *Zea mays* (3) extracted with Agrisera PEB buffer ([AS08 300](#)) were separated on **4-12 % NuPAGE Bis-Tris** gel (Invitrogen) and blotted 1 h to **PVDF**. Blots were blocked with blocking reagent for 1.5 h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 10 000 for 1 h at RT 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, Agrisera, [AS09 602](#)) diluted to 1:25 000 in for 1h at RT with agitation. The blot was washed as above and developed for 5 min with chemiluminescent detection reagent, according to the manufacturers instructions. Exposure time was 44 seconds.