Agrisera
Part of Olink® Group

This product is **for research use only** (not for diagnostic or therapeutic use) **contact: support@agrisera.com**

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Product no AS06 157

Anti-PsbH | Small subunit H of PSII

Product information

Immunogen	KLH-conjugated synthetic peptide chosen from PsbH protein of *Arabidopsis thaliana* P56780, AtCg00710
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	100 µl
Reconstitution	For reconstitution add 100 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.
Additional information	This product can be sold containing ProClin if requested

Application information

Recommended dilution	1 : 5000 (WB)
Expected | apparent MW	7.7 | 4 (*Arabidopsis thaliana*)
Confirmed reactivity	*Abies balsamea, Arabidopsis thaliana, Hordeum vulgare, Pinus strobus, Spinacia oleracea, Synechococcus* sp. PCC 7942
Predicted reactivity	*Cannabis sativa, Chlamydomonas reinhardtii, Glycine max, Nicotiana benthamiana, Nicotiana tabacum, Oryza sativa, Picea sitchensis, Pisum sativum, Populus deltoides, Solanum lycopersicum* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	LMW proteins can sometimes interfere with chlorophyll, but most chlorophyll can be removed by precipitating sample in acetone before loading on a gel. **Protocol:** Add acetone to final concentration of 80% ice-cold acetone. Leave 10 minutes. Spin. Rresuspend pellet in solubilisation buffer and load on a gel.
Selected references	Hackett et al. (2017). An Organelle RNA Recognition Motif Protein Is Required for Photosystem II Subunit psbF Transcript Editing. Plant Physiol. 2017 Apr;173(4):2278-2293. doi: 10.1104/pp.16.01623. Levey et al. (2014). Expression of a nuclear-encoded psbH gene complements the plastidic RNA processing defect in the PSII mutant hcf107 in Arabidopsis thaliana. Plant J. 2014 Oct;80(2):292-304. doi: 10.1111/tpj.12632. Epub 2014 Sep 8. Verhoeven et al. (2009). Seasonal changes in abundance and phosphorylation status of photosynthetic proteins in eastern white pine and balsam fir. Tree Physiol. 29:361-374.

Application example

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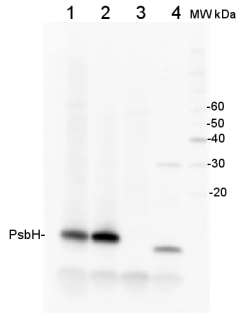

2 µg of total protein from (**1**) *Arabidopsis thaliana* leaf extracted with **P**rotein **E**xtration **B**uffer, PEB (**AS08 300**), (**2**) *Hordeum vulgare* leaf extracted with PEB, (**3**) *Chlamydomonas reinhardtii* total cell extracted with PEB, (**4**) *Synechococcus* sp. 7942 total cell extracted with PEB, (**5**) *Anabaena* sp. total cell extracted with PEB were separated on **4-12%** NuPage (Invitrogen) **LDS-PAGE** and blotted 1h to **PVDF**. Blots were blocked immediately following transfer in 2% ECL Advance blocking reagent in 20 mM Tris, 137 mM sodium chloride pH 7.6 with 0.1% (v/v) Tween-20 (TBS-T) for 1h at room temperature with agitation. Blots were incubated in the primary antibody at a dilution of 1: 10 000 for 1h at room temperature 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 room temperature with agitation. Blots were incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:50 000 in 2% blocking solution for 1h at room temperature with agitation. The blots were washed as above and developed for 5 min with chemiluminescent detection reagent according the manufacturers instructions. Images of the blots were obtained using a CCD imager (FluorSMax, Bio-Rad) and Quantity One software (Bio-Rad). Exposure time was 1 second.