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Product no AS06 105

PsaH | PSI-H subunit of photosystem I (plants)

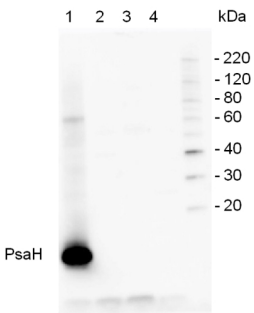
Product information

Immunogen	KLH-conjugated synthetic peptide derived from the protein sequence of *Arabidopsis thaliana* for PsaH1(At3g16240) and PsaH2 (At1g52230). This peptide sequence is quite conserved in some dicots but not in monocots.
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	200 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	10 | 10 for *Arabidopsis thaliana*
Confirmed reactivity	*Arabidopsis thaliana, Nicotiana tabaccum, Spinacia oleracea*
Predicted reactivity	*Arachis hypogaea, Brassica rapa, Medicago truncatula, Nicotiana sylvestris, Nicotiana tabaccum, Populus trichocarpa, Ricinus communis* Species of your interest not listed? Contact us
Not reactive in	monocots
Selected references	Wang et al. (2017). The Phytol Phosphorylation Pathway Is Essential for the Biosynthesis of Phylloquinone, which Is Required for Photosystem I Stability in Arabidopsis.Mol Plant. 2017 Jan 9;10(1):183-196. doi: 10.1016/j.molp.2016.12.006. Schwarz et al. (2017). Photosystem I-LHCII megacomplexes respond to high light and aging in plants. Photosynth Res. 2017 Oct 3. doi: 10.1007/s11120-017-0447-y. Tiwari et al. (2016). Photodamage of iron–sulphur clusters in photosystem I induces non-photochemical energy dissipation. Nature Plants Article number: 16035 (2016) doi:10.1038/nplants.2016.35.

Application example



2 µg of total leaf of *Arabidopsis thaliana* (**1**) and *Hordeum vulgare* (**2**) and cellular protein of *Chlamydomonas reinhardtii* (**3**) and *Synechococcus PCC 7942* (**4**) isolated with PEB (**AS08 300**) were separated on **4-12% Nupage Bis-Tris** gels in in MES running buffer (Invitrogen) at 200V for 35 minutes. Proteins were transferred for 80 minutes at 30V to a **PVDF** membrane pre-wetted in methanol and equilibrated in 1X transfer buffer. Blots were blocked immediately following transfer in 2% blocking reagent in 20 mM Tris, 137 mM sodium chloride pH 7.6 with 0.1% (v/v) Tween-20 (TBS-T) and probed with **anti-PsaH** (AS06 105, **1:1000**) and **secondary HRP-conjugated** goat anti-rabbit antibody (**1:50 000**) for 1 hr in TBS-T containing 2% ECL Advance blocking reagent (GE Healthcare). Antibody incubations were followed by **washings in TBS-T** (15, +5, +5, +5 min). All steps were performed **at RT with agitation**. Signals was detected after 10 s using chemiluminescence detection reagent according to the manufacturers instructions and a CCD imager (FluorSMax, Bio-Rad).