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Product no AS04 047

Anti-PsaE | PSI-E subunit of photosystem I (monocot)

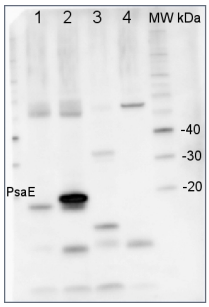
Product information

Immunogen	10 kDa PSI-E protein purified from barley thylakoids corresponding to PSI-E protein of *Horderum vulgare*, UniProt: P13194
Host	Rabbit
Clonality	Polyclonal
Purity	Total IgG. Protein G purified in PBS pH 7.4.
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.

Application information

Recommended dilution	1 : 2000-1 : 5000 (WB)
Expected | apparent MW	10.8 | 10.5 kDa
Confirmed reactivity	*Hordeum vulgare, Oryza sativa*
Predicted reactivity	*Catalpa bungei, Nicotiana sylvestris, Zea mays* Species of your interest not listed? Contact us
Not reactive in	*Arabidopsis thaliana,* cyanobacteria*, Chlamydomonas reinhardtii, Synechococcus sp.* PCC7942
Selected references	Yoshida et al. (2016). Hisabori T1.Two distinct redox cascades cooperatively regulate chloroplast functions and sustain plant viability. Proc Natl Acad Sci U S A. 2016 Jul 5;113(27):E3967-76. doi: 10.1073/pnas.1604101113. Epub 2016 Jun 22. Ye et al. (2012). A Mutation of OSOTP 51 Leads to Impairment of Photosystem I Complex Assembly and Serious Photo-damage in Rice. J Integr Plant Biol. Feb 2012. Yadavalli et al. (2012). Differential degradation of photosystem I subunits under iron deficiency in rice. J Plant Physiol. March 22.

Application example



2 µg of total protein from *Arabidopsis thaliana* leaf **(1)**, *Horderum vulgare* leaf **(2)**, *Chlamydomonas reinhardtii* total cell **(3)**, *Synechococcus* sp.PCC 7942 total cell **(4)**, all extracted with PEB (**AS08 300**) were separated on **4-12%** NuPage (Invitrogen) **LDS-PAGE** and blotted 1h to **PVDF**. 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) 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 1:20 000 in 2% blocking solution for 1h at room temperature with agitation. The blots were washed as above and developed for 5 min with chemiluminescence 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).

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