

This product is for research use only (not for diagnostic or therapeutic use)

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Product no AS10 704

PsbA | D1 protein of PSII, DE-loop

Product information

Immunogen KLH-conjugated synthetic peptide, amino acids 234-242 of Arabidopsis thaliana D1 protein UniProt: P83755,

TAIR: AtCg00020

Host Rabbit

Clonality Polyclonal

Purity Serum

Format Lyophilized

Quantity 50 ul

Reconstitution For reconstitution add 50 μl of sterile water

Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please Storage 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 Antibody will detect 23 kDa N-terminal fragment

Application information

Recommended dilution 1:10 000, thylakoid fraction (WB)

Expected | apparent

38 | 28-30 kDa

Confirmed reactivity

Arabidopsis thaliana, Chlamydomonas reinhardii, Hordeum vulgare, Medicago truncatula, Nannochloropsis oceanica strain IMET1, Neochloris oleoabundans UTEX 1185 (chlorophyta), Nicotiana tabacum, Physcomitrium patens, Pisum sativum, Silene vulgaris, Sinapsis alba, Spinacia oleracea, Synechococcus sp. PCC 7942, Synechocystis sp. PCC6803, Triticum sp.

Predicted reactivity

Cucumis sativus, Glycine max, Nannochloropsis sp., Oryza sativa, Populus balsamifera, Ricinus communis, Zea mays, Vitis vinifera

Species of your interest not listed? Contact us

Not reactive in

No confirmed exceptions from predicted reactivity are currently known

Additional information

Antibody is recognizing a 23 kDa fragment in spinach and Arabidopsis thylakoidsfor usage on total cell extracts the dilution needs to be determined experimentally

Selected references

Lu et al. (2021). Role of an ancient light-harvesting protein of PSI in light absorption and photoprotection. Nat Commun. 2021 Jan 29;12(1):679. doi: 10.1038/s41467-021-20967-1. PMID: 33514722; PMCID: PMC7846763. (blue-native

Mazur et al. (2021) The SnRK2.10 kinase mitigates the adverse effects of salinity by protecting photosynthetic machinery. Plant Physiol. 2021 Dec 4;187(4):2785-2802. doi: 10.1093/plphys/kiab438. PMID: 34632500; PMCID:

Rantala et al. (2020). PGR5 and NDH-1 systems do not function as protective electron acceptors but mitigate the consequences of PSI inhibition. Biochim Biophys Acta Bioenerg. 2020 Jan 11;1861(3):148154. doi: 10.1016/j.bbabio.2020.148154.

Grieco et al. (2020). Adjustment of photosynthetic activity to drought and fluctuating light in wheat. Plant Cell Environ. 2020 Mar 16. doi: 10.1111/pce.13756.

Rantala and Tikkanen et al. (2018). Phosphorylation?induced lateral rearrangements of thylakoid protein complexes upon light acclimation. Plant Direct Vol. 2, Issue 2.

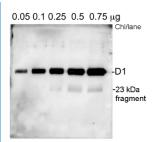
Application example



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Thylakoid membranes from Arabidopsis (0.05-0.75 µg of Chl) were separated on 14%AA+ 6M urea gels and blotted 1h to PVDF. Blots were blocked immediately following transfer in 5% milk solution for 1h at room temperature with agitation. Blots were incubated in the primary antibody at a dilution of 1: 20 000 o.n. at 4°C 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, HRP conjugated, diluted to 1:5 000. The blots were washed as above and developed for 5 min with ECL-Plus detection reagent according to the manufacturers instructions. Exposure time was 1 min in CCD camera Fuji4000.

Courtesy Professor Cornelia Spetea-Wiklund, University of Ghotenburg, Sweden