

PsbA | D1 protein of PSII, N-terminal

Cat PA00835

Size 50 µl

Host

Rabbit

Clonality

Polyclonal

Confirmed reactivity

Arabidopsis thaliana, Hordeum vulgare, Chlamydomonas reinhardtii, Chlorella vulgaris, Synechococcus sp. PCC7942, sp. PCC7002, Synechocystis 6803 substrain PCC-M

Immunogen

KLH-conjugated synthetic peptide derived from N-terminal of available plant, algal and cyanobacterial PsbA sequences, including Arabidopsis thaliana UniProt: A4QJR4, TAIR: AtCg00020, Oryza sativa P0C434, Populus alba Q14FH6, Physcomitrella patens Q6YXN7, Chlamydomonas reinhardtii P07753, Synechocystis sp. P14660 and many others

Host

Rabbit

Clonality

Polyclonal

Purity

Serum

Format

Lyophilized

Reconstitution

For reconstitution add 50 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

Western blot (WB)

Recommended dilution

1 : 1000-1 : 10 000 (WB)

Expected | apparent MW

38 | 28-30 kDa

Confirmed reactivity

Arabidopsis thaliana, Hordeum vulgare, Chlamydomonas reinhardtii, Chlorella vulgaris, Synechococcus sp. PCC7942, sp. PCC7002, Synechocystis 6803 substrain PCC-M

Predicted reactivity

Algae (brown and red), Conifers, Cyanobacteria, Brassica napus, Diatoms, Glycine max, Manihot esculenta, Medicago truncatula, Nicotiana tabacum, Oryza sativa, Phaseolus vulgaris, Pisum sativum, Solanum

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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lycopersicum, Solanum tuberosum, Spinacia oleracea, Triticum aestivum, Zea mays, Vitis vinifera

Not reactive in

No confirmed exceptions from predicted reactivity are currently known

Additional information

Peptide target used for antibody production comes from Helix 1 of PSII, lumenal exposed loop. Antibodies are going to recognize the target in a wide range of species. This product can be sold containing ProClin if requested. This antibody will detect the phosphorylated form of D1 as an alternate band to the main band on a high resolution gel

Description

The psbA gene has been cloned from many plants, green algae and cyanobacteria. The psbA gene is located in the chloroplast genome and encodes the D1 protein, a core component of photosystem II. PsbA/D1 cycles rapidly under the light of all oxygen-containing photoorganisms. Tracking PsbA pools with Global PsbA antibodies can reveal the functional content of photosystem II in a wide range of samples.

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