PsaC | PSI-C core subunit of photosystem I (PsaC antibody + PsaC protein positive control)



Cat PA00946

Size 50 µl anti-PsaC antibody, 100 µl PsaC protein standard

Host

Rabbit

Clonality

Polyclonal

Confirmed reactivity

Arabidopsis thaliana, Chlamydomonas reinhardtii, Cyanophora paradoxa, Heterosigma akashiwo, Emiliania huxleyi, Euglena gracilis, Gonyaulax polyedra, Horderum vulgare, Micromonas pusilla, Porphyra sp. Spinacia oleracea, Synechococcus PCC 7942, Thalassiosira pseudonan

Immunogen

KLH-conjugated synthetic peptide conserved in all known PsaC proteins includingArabidopsis thaliana AtCg01060, Hordeum vulgare P69416, Oryza sativa P0C360, Chlamydomonas reinhardtii Q00914, Synechococcus elongatus Q31QV2

Host

Rabbit

Clonality

Polyclonal

Purity

Serum

Format

Lyophilized

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 (WB)

Expected | apparent MW

9 kDa

Confirmed reactivity

Arabidopsis thaliana, Chlamydomonas reinhardtii, Cyanophora paradoxa, Heterosigma akashiwo, Emiliania huxleyi, Euglena gracilis, Gonyaulax polyedra, Horderum vulgare, Micromonas pusilla, Porphyra sp. Spinacia oleracea, Synechococcus PCC 7942, Thalassiosira pseudonan

Predicted reactivity

Algae, Cyanobacteria, Glycine max, Nicotiana tabacum, Physcomitrium patens, Prochlorococcus sp. (surface and a deep water ecotype), Spinacia oleracea

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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PsaC | PSI-C core subunit of photosystem I (PsaC antibody + PsaC protein positive control)



Cat PA00946

Size 50 μl anti-PsaC antibody, 100 μl PsaC protein standard

Not reactive in

No confirmed exceptions from predicted reactivity are currently known

Additional information

Peptide target used to elicit this antibody is well conserved in all photoautotrophs except some cyanobacteria, some red algae and Cyanophora paradoxa, which contain a conserved substitution of a valine to an isoleucine. The performance of the antibodies has been confirmed against taxa containing both the valine and isoleucine variants. For reconstitution of PsaC antibodies add 50 μ l of sterile water. For reconstitution of PsaC positive control add 100 μ l of sterile water.,In some species minor cross reactions with some larger proteins are seen. These may contain related iron-sulfur binding motifs. Therefore size verification of the reacting band is required. Due to the small size of the protein, care should be taken to differentiate between chemiluminescent signal from PsaC and non-specific signals from chlotophylls or lipids if pigment is retained near the bottom of the blot. Protein standard: use a load of 2 μ l per well with ECL detection system and 4 μ l per well with alkaline phospatase.

Description

PsaC is a conserved chloroplast-encoded Fe-S binding protein, approximately 10 kDa, present in all known photosystem I complexes. It is located on the stromal side of the thylakoid membrane. PsaC coordinates the Fe-S clusters FA and FB through two cysteine-rich domains.

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