PsaG | PSI-G subunit of photosystem I

**Background**
PsaG is subunit located in the Photosystem I complex. It plays a role in stabilizing the binding of the peripheral antenna. PsaG, together with PsaH and PsaN, are unique to higher plants and algae. Immunogen: Fusion protein between DHFR and the mature part of PsaG.

**Immunogen**
Fusion protein between DHFR and the mature part of PSI-G (*Arabidopsis thaliana*, accession At1g55670 in the pQE42 vector)

**Host**
Rabbit

**Clonality**
Polyclonal

**Purity**
Total IgG

**Format**
Lyophilized in PBS pH 7.4

**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 tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

**Tested applications**
Western blot (WB), Immunogold (IG)

**Related products**
- Antibody collection to PSI proteins
- Plant protein extraction buffer
- Secondary antibodies

**Application information**

**Recommended dilution**
1 : 120-1 : 500 (IG), 1 : 2000-1 : 5000 (WB)

**Expected | apparent MW**
17 | 11 kDa

**Confirmed reactivity**
*Arabidopsis thaliana, Nicotiana tabacum, Spinacia oleracea*

**Predicted reactivity**
*Pisum sativum*

**Not reactive in**
*Hordeum vulgare, Chlamydomonas reinhardtii, Synechococcus sp. 7842*

**Additional information**
Immunogold localization has been done in leaf material of *Arabidopsis thaliana*.

**Selected references**
application example

2 µg of total protein from (1) Arabidopsis thaliana leaf extracted with PEB (AS08 300), (2) Hordeum vulgare leaf extracted with PEB (AS08 300), (3) Chlamydomonas reinhardtii total cell extracted with PEB (AS08 300), (4) Synechococcus sp. 7942 total cell 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% ECL Advance blocking reagent (GE Healthcare) 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% ECL Advance blocking solution for 1h at room temperature with agitation. The blots were washed as above and developed for 5 min with ECL Advance 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).