**product information**

**Background**
PSB33 or TEF5 is a Rieske (2Fe-2S) domain-containing protein located in chloroplast thylakoid membrane. The protein has oxireductase activity and is involved in oxidation reaction.

**Immunogen**
part of *Arabidopsis thaliana* recombinant TEF5 protein, corresponding to epitopes 61-242, UniProt: Q9C9I7, TAIR: At1g71500

**Host**
Rabbit

**Clonality**
Polyclonal

**Purity**
Serum

**Format**
Lyophilized

**Quantity**
50 µl

**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 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)

**Related products**
collection of antibodies to other Green Cut proteins

- Plant and algal protein extraction buffer
- Secondary antibodies

**Application information**

**Recommended dilution**
1 : 4000 (WB)

**Expected | apparent MW**
31 | 25 kDa (without transit peptide)

**Confirmed reactivity**
*Arabidopsis thaliana*, *Oryza sativa*

**Not reactive in**
No confirmed exceptions from predicted reactivity are currently known.

**Additional information**
This product can be sold with ProClin if requested.

**Selected references**
Specified μg/ul of chlorophyll from *Arabidopsis thaliana* leaf extracted with sample buffer (2% SDS, 8% sucrose, 0.2mM EDTA, 10mM Tris HCl (pH 6.8) 4% beta-mercaptoethanol) were separated on 15% SDS-PAGE and blotted 1h to PVDF. Blots were blocked with 10% milk for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1:4000 overnight 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 RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:20 000 in for 1h at RT with agitation. The blot was washed as above and developed for 5 min with ECL West Pico (34080, Thermo) according to the manufacturer’s instructions. Exposure time was 60 seconds.

Courtesy of Dr. Rikard Fristedt, Biophysics of Photosynthesis, Dep. Physics and Astronomy, Faculty of Sciences. VU University of Amsterdam, The Netherlands