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This product is **for research use only** (not for diagnostic or therapeutic use) **contact: support@agrisera.com**

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no AS12 1852

Anti-PSB33 | Rieske (2Fe-2S) domain-containing protein

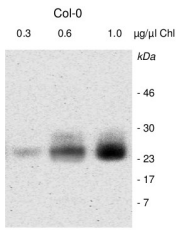
Product information

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 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 information

Recommended dilution	1 : 4000 (WB)
Expected | apparent MW	31 | 25 kDa (without transit peptide)
Confirmed reactivity	*Arabidopsis thaliana, Oryza sativa*
Predicted reactivity	Species of your interest not listed? Contact us
Not reactive in	*Chlamydomonas reinhardii*
Additional information	This product can be sold with ProClin if requested
Selected references	Kato et al. (2017). Deficiency of the Stroma-Lamellar Protein LIL8/PSB33 Affects Energy Transfer Around PSI in Arabidopsis. Plant Cell Physiol. 2017 Nov 1;58(11):2026-2039. doi: 10.1093/pcp/pcx124. Fristedt et al. (2017). PSB33 sustains photosystem II D1 protein under fluctuating light conditions. Journal of Experimental Botany doi:10.1093/jxb/erx218. Dixit (2015). Sulfur alleviates arsenic toxicity by reducing its accumulation and modulating proteome, amino acids and thiol metabolism in rice leaves. Sci Rep. 2015 Nov 10;5:16205. doi: 10.1038/srep16205. Fristedt at al. (2014). PSB33, a protein conserved in the plastid lineage, is associated with the chloroplast thylakoid membrane and provides stability to Photosystem II supercomplexes in Arabidopsis. Plant Physiol. Dec, 2014, open access.

application example



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: 4 000 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