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Product no AS22 4788

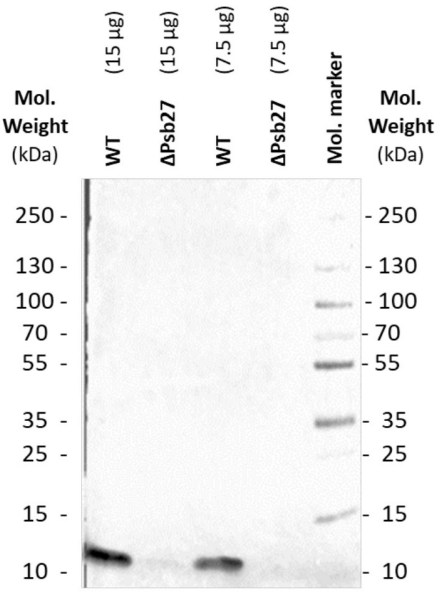
Psb27-H1 | Photosystem II repair protein 27

Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* PSB27-H1 protein sequence, UniProt: Q9LR64, TAIR: At1g03600
Host	Rabbit
Clonality	Polyclonal
Purity	Antigen affinity purified serum, in PBS pH 7.4
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution, add 50 µl, of sterile or deionized 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.

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	18.8 | 11.7 | kDa (due to terminal processing)
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Brassica oleracea, Brassica rapa,Capsella rubella, Coffea arabica,Camellia sinensis,Cucurbita pepo subsp. pepo, Erythranthe guttata,Gossypium hirsutum, Hevea brasiliensis, Hibiscus syriacu,Morus notabilis, Populus alba, Populus trichocarpa,Raphanus sativus, Quillaja saponaria* Species of your interest not listed? Contact us
Not reactive in	*Chlamydomonas reinhardtii*
Additional information	Freshly extracted samples are recommended for the analysis. For protein transfer, use a membrane with a pore size of 0.2 µm to secure that the protein will transfer correctly, as described here.
Selected references	To be added when available, antibody available in April 2023.



30 - 3.75 µg/well of total thylakoid protein of *Arabidopsis thaliana*, extracted freshly from previously isolated thylakoid membranes (2021/07/30, kept at -80°C). Initial sample buffer: 20 mM MES-NaOH pH 6.3, 5mM $MgCl_2$,15mM NaCl. Sample was denatured with Fast sample buffer: In short, to each 5µL aliquot of sample were added 3 µL Bio-Rad Native Page Sample buffer cat #161-0738 + 2 µL 10% SDS + 1 µL 2% -mercaptoethanol) at 70°C for 5 minutes. Samples were separated on 4-20% SDS-PAGE and blotted for 45 minutes nitrocellulose membrane,

using: semi-dry transfer. Blot was blocked with 5 % milk for: 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 in TBS-T with 5% milk ON/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 matching secondary antibody (Goat anti-rabbit IgG horse radish peroxidase conjugated, AS09 602 Agrisera) diluted to 1: 25 000 in TBS-T for 1h30/RT with agitation. The blot was washed as above and developed with a following chemiluminescent detection reagent: AgriseraBright (AS16 ECL-N-10). Exposure time was 10 minutes.

Courtesy of André Graça, Doctoral student at Department of Chemistry, Umeå University, Sweden