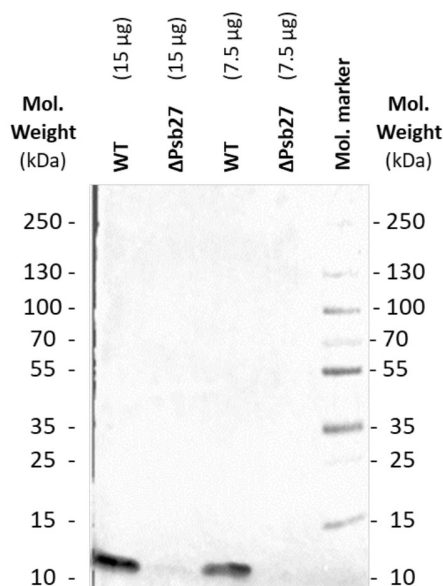


Product no **AS22 4788****Anti-Psb27-H1 | Photosystem II repair protein 27****Product information**

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

<b>Recommended dilution</b>	1 : 1000 (WB)
<b>Expected   apparent MW</b>	18.8   11.7   kDa (due to terminal processing)
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i>
<b>Predicted reactivity</b>	<i>Brassica oleracea</i> , <i>Brassica rapa</i> , <i>Capsella rubella</i> , <i>Coffea arabica</i> , <i>Camellia sinensis</i> , <i>Cucurbita pepo</i> subsp. <i>pepo</i> , <i>Erythranthe guttata</i> , <i>Gossypium hirsutum</i> , <i>Hevea brasiliensis</i> , <i>Hibiscus syriacus</i> , <i>Morus notabilis</i> , <i>Populus alba</i> , <i>Populus trichocarpa</i> , <i>Raphanus sativus</i> , <i>Quillaja saponaria</i> Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	<i>Chlamydomonas reinhardtii</i>
<b>Additional information</b>	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 <a href="#">here</a> .
<b>Selected references</b>	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<sub>2</sub>, 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