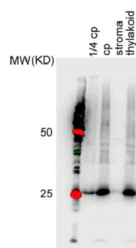


Product no **AS15 2872****Anti-PSA3 | Photosystem I Assembly 3****Product information**

|                       |   |
|-----------------------|---|
| <b>Immunogen</b>      | Recombinant PSA3, amino acids 110 to 269 derived from <i>Zea mays</i> <a href="#">Zm00001d013295</a>  |
| <b>Host</b>           | Rabbit  |
| <b>Clonality</b>      | Polyclonal  |
| <b>Purity</b>         | Immunogen 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 water  |
| <b>Storage</b>        | 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**

|                               |   |
|-------------------------------|---|
| <b>Recommended dilution</b>   | 1 : 2000 (WB)   |
| <b>Expected   apparent MW</b> | 26 kDa  |
| <b>Confirmed reactivity</b>   | <i>Zea mays</i>   |
| <b>Not reactive in</b>        | No confirmed exceptions from predicted reactivity are currently known   |
| <b>Selected references</b>    | <a href="#">Chotewutmontri and Barkan (2024)</a> . Localization of proteins involved in the biogenesis and repair of the photosynthetic apparatus to thylakoid subdomains in Arabidopsis. Plant Direct. 2024 Nov 13;8(11):e70008. doi: 10.1002/pld3.70008.<br><a href="#">Shen J, Williams-Carrier R, and Barkan A. (2017)</a> PSA3, a protein on the stromal face of the thylakoid membrane, promotes photosystem I accumulation in cooperation with the assembly factor PYG7. Plant Physiol. 2017 Jul;174(3):1850-1862. doi: 10.1104/pp.17.00524. |



5 µg of total protein from *Zea mays* leaf seedling tissue was extracted with protein extraction buffer (100 mM Tris pH7.5, 10% glycerol, 1 mM EDTA, 1 mM EGTA, 2mM pMSF, 0.002 mg leupeptin, 0.002 mg pepstatin A, 2.5 mM DTT) and denatured in 1XPSB (33 mM Tris pH 6.8, 50 mM 2-Mercaptoethanol, 2% SDS, 10% glycerol, 0.1% bromophenol blue) at 70°C for 5 min, separated on 4-15% Tris-Glycine SDS-PAGE and blotted overnight to nitrocellulose using tank transfer. Blots were blocked with 4% milk in 1XTBST for 1h at room temperature (RT) with agitation. The blot was incubated in the primary antibody at a dilution of 1:2000 for 1h at RT with agitation in TBST. 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 TBST at RT with agitation. The blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 for 1h at RT with agitation. The blot was washed as above and developed for 2 min with chemiluminescent detection reagent.

Courtesy Dr. Alice Barkan, University of Oregon, USA