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Product no AS15 2872

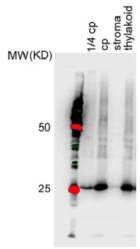
Anti-PSA3 | Photosystem I Assembly 3

Product information

Immunogen	Recombinant PSA3, amino acids 110 to 269 derived from *Zea mays* Zm00001d013295
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
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 : 2000 (WB)
Expected | apparent MW	26 kDa
Confirmed reactivity	*Zea mays*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Chotewutmontri and Barkan (2024). 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. Shen J, Williams-Carrier R, and Barkan A. (2017) 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, 1mM 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