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Product no AS06 171

Anti-PsbTn | Tn protein of PSII

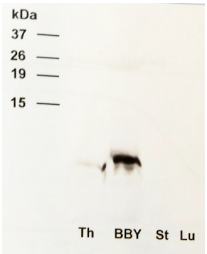
Product information

Immunogen	KLH-conjugated synthetic peptide, derived from *Arabidopsis thaliana* PsbTn protein sequence, UniProt:Q39195, TAIR: AT3G21055
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	200 µl
Reconstitution	For reconstitution add 200 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: 1000 (WB)
Expected | apparent MW	11 | 5 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Cicer arietinum, Glycine soja, Helianthus annuus, Medicago truncatula, Nicotiana attenuata, Nicotiana tabacum, Nicotiana sylvestris, Noccaea caerulescens, Petunia hybrida, Populus trichocarpa, Solanum chacoense, Solanum tuberosum* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	LMW proteins can sometimes interfere with chlorophyll, but most chlorophyll can be removed by precipitating sample in acetone before loading on a gel. **Protocol:** Add acetone to final concentration of 80% ice-cold acetone. Leave 10 minutes. Spin. Rresuspend pellet in solubilisation buffer and load on a gel.
Selected references	Chen et al. (2019). The Low Molecular Mass Photosystem II Protein PsbTn is Important for Light Acclimation. Plant Physiol. Apr;179(4):1739-1753. doi: 10.1104/pp.18.01251.

Application example



10 µg of protein from Arabidopsis thaliana thylakoids (Th), BBY, stroma (St), lumen (LU) were separated on 16.5 % SDS-PAGE (Tris-Tricine mini-gel containing 6 M urea) and blotted 1h to PVDF using semi-dry. Blot was blocked with 5 % milk for 1h/RT or 4°C/ON with agitation. Blot was incubated in the primary antibody at a dilution of 1: 10 000 for 1h/RT with agitation in TBS-T. The antibody solution was decanted and the blot was rinsed briefly twice, then washed 2x for 10 min with TBS and 3 times for 10 min in TBS-T at RT with agitation. Blot was incubated in a matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:50 000 for 1h/RT with agitation. The blot was washed as above and developed with chemiluminescent detection reagent. Exposure time was 3 seconds.

Courtesy of Patrik Storm, Umeå University, Sweden