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Product no AS23 4991

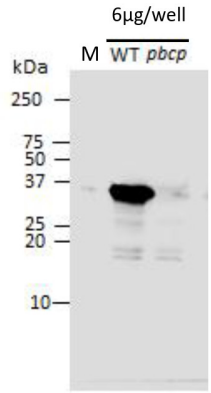
Anti-PBCP | Photosystem II core phosphatase

Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* PBCP protein sequence, UniProt: O64730 GeneID: AT2G30170
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	32 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Camelina sativa, Capsella rubella,* Species of your interest not listed? Contact us
Not reactive in	*Oryza sativa*
Selected references	To be added when available, antibody released in February 2026.



Total protein was extracted from *Arabidopsis thaliana* wild-type (WT, Col-0) and Atpbcp (AT2G3017) mutant lines using I.P. buffer: 75 mM NaCl, 50 mM Tris-HCl (pH 7.5), 1% Triton X-100, 5 mM EDTA, 1 mM DTT, 1 mM PMSF, 2 mM NaF, Protease inhibitor cocktail (PIC), 20 µM MG132.

M: molecular weight marker; the left lane indicates approximate sizes (25, 37, and 75 kDa). The load/well was 6 µg of chlorophyll.

Protein extracts were denatured with 5X SDS buffer diluted to 1X (iNtRON, biotechnology), the exact buffer components:Tris-HCl pH 6.8 250 mM, SDS 10%, Glycerol 50%, DTT 0.5M, bromophenol blue 0.5% incubated at room temperature (RT) for 30 mins. Samples were separated in the cold on 10 % SDS-PAGE and blotted for1 h to PVDF memrane (pore size of 0.45 um), using: wet transfer in the cold. Blot was blocked with 5 % skim milk for 1h/RT with agitation. Blot was incubated in the primary antibody (AS23-4991) at a dilution of 1: 2000 1hr/RT in TBST with agitation. The antibody solution was decanted, and the blot was rinsed briefly twice, then washed 4 time for 10 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1: 25 000 in for 2h/RT with agitation. The blot was washed as above and developed with a chemiluminescent detection reagent.

Courtesy of Dr. Khan Naveed, Pusan National University, Korea