

Anti-PBP1 antibody, C-terminal, rabbit polyclonal

81-113 200 µg

Shipping and Storage: Shipped at 4°C or -20°C and store at -20°C. Do not freeze.

Immunogen: Synthetic peptide C-YDKSPPEEVTGEEHGK, corresponding to PBP1 protein (193-207 amino acids) of *Arabidopsis thaliana*.

Form: 2 mg/ml in PBS- with 50% glycerol. Filter-sterilized. No preservative or carrier protein

Purity: IgG fraction purified by protein A affinity from the rabbit antiserum to PBP1 C-terminal.

Reactivity: *Arabidopsis thaliana*. Not tested in other species.

Applications:

1. Western blotting (1/2,000-1/6,000)
2. Immunofluorescent staining (1/500)

Background: PBP1 (PYK10-binding protein 1) is inhibitor-type lectin that may regulate the correct polymerization of BGLU23/PYK10 upon tissue damage. Activates BGLU21, BGLU22 and BGLU23/PYK10. Length; 298 amino acids. Mass (Da); 32,158

Subcellular location: Cytoplasm

Data Link: UniProtKB [O04314](http://www.uniprot.org/entry/O04314)(JAL30_ARATH)

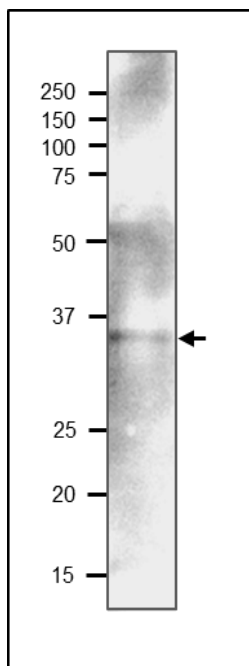


Fig.1 Western blot of PBP1 in extract of seedling of arabidopsis

Crude extract of 7-day-old seedling of *Arabidopsis thaliana* was run on 12.5% SDS-PAGE at 15 V and blotted overnight to PVDF membrane by wet system. Blocking was done with 3% skim milk. The anti-PBP1 C-terminal antibody was used at 1 µg/ml. Secondary antibody (goat anti-rabbit IgG antibody HRP-conjugated, ab97051) was used at 1/10,000 dilution.

Reference. This antibody was described in Ref.1 and used in the following publications.

1. Nagano AJ et al. Activation of an ER-body-localized beta-glucosidase via a cytosolic binding partner in damaged tissues of *Arabidopsis thaliana*. [Plant Cell Physiol.](#) 2005 Jul;46(7):1140-8. PMID: [15919674](#). **WB, IF (Arabidopsis)**

Related Products

81-112 Anti-PBP1 antibody, N-terminal, rabbit polyclonal

81-116 Anti-PYK10 (CM) antibody, rabbit polyclonal

81-117 Anti-PYK10 (IM) antibody, rabbit polyclonal