Anti-PYK10 antibody, C-terminal, rabbit polyclonal

81-116　　100 µg

Storage: Ship at 4°C and store at -20°C. Do not freeze below -20℃.

Reactivity: Arabidopsis thaliana. Not tested in other species.

Immunogen: Synthetic peptide C-DGYKNRFGLYYVDFKNNLTRYEKESGKYY, corresponding to C-terminal region of PYK10 protein (478-506 amino acids) of *Arabidosis thaliana.*

Applications:

1. Western blotting (1/5,000-1/20,000)
2. Immunohistochemistry (1/500-1/1,000)

Purity: IgG fraction purified with protein A from the rabbit antiserum to PYK10 C-termial region.

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

Background: PYK10 is the main component of ER bodies. It has hydrolase activity, hydrolyzing O-glycosyl compounds It may produce defense compounds when plants are damaged by insects or wounding.Length;524 amino acids. Mass; 59,721. The signal sequence, N-terminal 24 amino acids is removed in the mature protein. It has ER retention signal, KDEL, at C-terminus.

Subcellular localization: ER bodies.

Data Link: UniProtKB A0A178VCN3 (A0A178VCN3_ARATH)

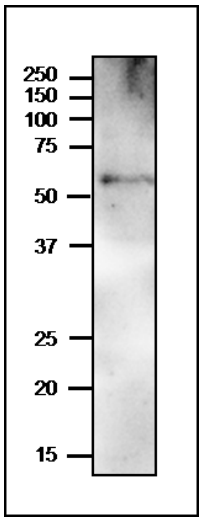

Fig.1　Western blot of PYK10 in extract of seedlings of arabidopsis

Crude extract of 7-day-old seedlings of *Arabidopsis thaliana* was run on SDS-PAGE (12.5% gel) and blotted to PVDF membrane by semi-dry system. Blocking was done with 3% skim milk. The anti-PYK10 C-termial antibody was used at 0.4µg/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. Matsushima R et al. A novel ER-derived compartment, the ER body, selectively accumulates a beta-glucosidase with an ER-retention signal in Arabidopsis Plant J. 2003 Feb;33(3):493-502. PMID: 12581307.**WB, IHC (arabidopsis)**

Related Products

81-101 Anti-MEB1 antibody, rabbit polyclonal

81-102 Anti-MEB2 antibody, rabbit polyclonal

81-103 Anti-NAI2 (ΔSP) antibody, rabbit polyclonal

81-104 Anti-NAI2 (C-terminal) antibody, rabbit polyclonal

81-105 Anti-BGU18 antibody, rabbit polyclonal

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

81-113 Anti-PBP1 antibody, C-terminal, rabbit polyclonal

81-117 Anti-PYK10 antibody, internal, rabbit polyclonal