Anti-MEB2 (At) antibody, rabbit polyclonal

Product code	81-102
Size	200 µg
Storage	-20℃
Concentration	2.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum.
Immunogen	Purified recombinant His6-tagged MEB2 N-terminal region (amino acids 1-325) of *A. thaliana*.
Isotype	Rabbit IgG
Reactivity	MEB2 protein of Arabidopsis thaliana.
Special notes	Validation of specificity: Specific reactivity has been validated by western blot showing that the specific band is absent in *meb2* mutant extracts.(Ref 1).
Application	1. Western blotting (1/10,000) 2. Immunohistochemistry (1/1,000-1/2,000)
Background	May sequester excess cytosolic iron and manganese into endoplasmic reticulum to reduce metal ion toxicity. Not essential for the accumulation of ER body components, including PYK10. Subcellular location: Endoplasmic Reticulum Body (membrane protein). Modification: N-linked glycosylation at 9 asparagine residues. Elimination of 19-amino acid signal peptide from N-terminus.
Data Link	UniProtKB F4KFS7 (MEB2_ARATH)

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Data Images: 81-102 Anti-MEB2 (At) antibody, rabbit polyclonal

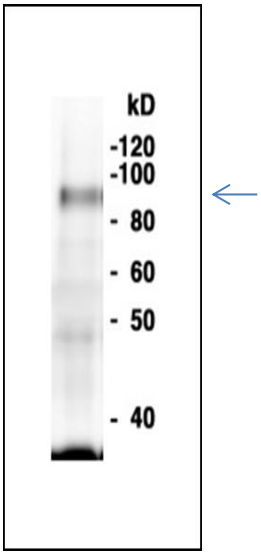

Fig.1 Western Blot of MEB2 in extract of arabidopsis.seedling

Crude extract of 7day old seedling of *Arabidopsis thaliana* was run on 7.5% SDS-PAGE and blotted overnight at 15 V by wet system.Anti-MEB2 antibody was used at 1/10,000 dilution. Secondary antibody (goat anti-rabbit IgG antibody HRP-conjugated, ab97051) was used at 1/10,000 dilution. The molecular mass predicted from the amino acid sequence is 61 kDa.The apparent molecular mass of MEB1 protein analyzed by western blot has been reported to be 82 kDa (Ref.1).The difference may be due to the membrane nature of the protein.

Reference: This antibody has been described and used in the following publication.

1. Yamada K et al. Identification of two novel endoplasmic reticulum body-specific integral membrane proteins. Plant Physiol. 2013 Jan;161(1):108-20. PMID: 23166355 **WB, IP (Arabidopsis)**

Related products

81-101 Anti-MEB1 (At) antibody, rabbit polyclonal

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

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

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