Anti-MEB2 antibody, rabbit polyclonal

81-102　　200 μg

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

Immunogen: Recombinant His6-tagged MEB2 N-terminal region (amino acids 1-325) of *A. 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-chromatography from rabbit antiserum

Reactivity: MEB2 protein of Arabidopsis thaliana.

Validation of specificity: Specific reactivity has been validated by western blot showing that the specific band is absent in *meb2* mutant extracts.(Ref 1).

Applications:

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)

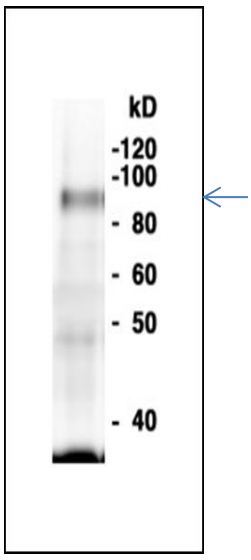

Fig.1 Western Blot of MEB2 in extract of arabidopsis.seedling

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 antibody

81-103 anti-NAI2 (Signal Peptide deleted) antibody

81-104 anti-NAI2 (C-terminal) antibody