

Anti-MEB1 (Membrane protein of ER Body1) (At) antibody, Rabbit polyclonal

Product code	81-101
Size	100 µg
Storage	-20°C
Concentration	2.0 mg/ml
Buffer	PBS ⁻ with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum.
Immunogen	Recombinant His-MEB1 (271-502 amino acids) protein of <i>A. thaliana</i> .
Isotype	Rabbit IgG
Reactivity	<i>Arabidopsis thaliana</i> MEB1 protein. No cross-reaction with MEB2 protein. Expected to reacts with related plant species from sequence conservation.
Special notes	Validation: Validated by mutants (Fig.2)
Application	1. Western blot (1/1000-1/2000) 2. Immunoprecipitation (1/100-1/500) 3. ELISA (assay dependent)
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. Subcellular localization: Membrane of endoplasmic reticulum.
Data Link	UniProtKB Q8W4P8 (MEB1_ARATH)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 81-101 Anti-MEB1 (Membrane protein of ER Body1)(At) antibody, Rabbit polyclonal

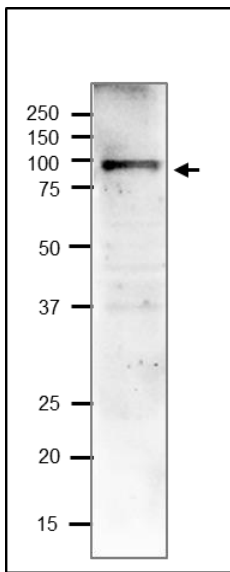


Fig 1. Western Blot of MEB1 in extract of 7 day seedling of *A. thaliana*.

12.5% gel, Blotting 15 V, overnight (wet)

1st antibody, 2 µg/mL

2nd antibody Goat anti-rabbit IgG H&L (HRP) (ab97051), 10000 dilution

Loading sample; 7 day seedling (10µg)

Calculated molecular mass is 68 kDa. . This difference between predicted and observed molecular masses (~85 kDa) may be attributable to the large number of hydrophobic residues, which affect the behavior of proteins in SDS-PAGE analysis

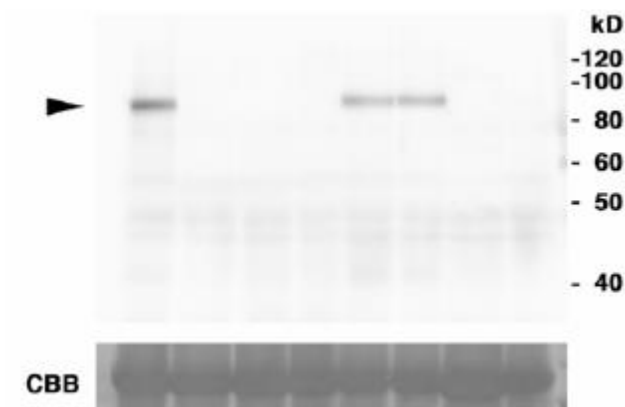


Fig 2. Western Blot of extracts of wild-type and *meb1* mutant cells

Samples: 7-day old seedlings from 1 (wild-type), 2 (*meb1-1*), 3 (*meb1-2*), 4 (*meb1-3*), 5 (*meb2-1*), 6 (*meb2-3*), 7 (*meb1-1 meb2-1*), 8 (*nal-1-1*). NAI1 protein is MEB1 interacting protein. Coomassie blue staining (CBB) shows the Rubisco large subunit, which served as a loading control.

Proteins were separated by SDS-PAGE, transferred to a nylon membrane, and subjected to immunoblot analysis using anti-MEB1 (1:2,000 dilution)

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 Physiology](#) 2013 Jan;161(1):108-20. PMID [23166355](#) WB, IP (A. thaliana)

Related products

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

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

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