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**Product no** AS20 4423

# MEB1 | Membrane protein of ER body 1

## Product information

| | |
|---|---|
| **Immunogen** | Purified recombinant MEB1 of *Arabidopsis thaliana,* residues 271-502 with a His tag, UniProt: Q8W4P8, TAIR: AT4G27860 |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Purity** | Total IgG. Protein A purified in PBS, 50% glycerol. Filter sterilized. |
| **Format** | Liquid at 2 mg/ml. |
| **Quantity** | 100 µg |
| **Storage** | Store at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube. |
| **Additional information** | This antibody does not detect MEB2 protein in *Arabidopsis thaliana*. |

## Application information

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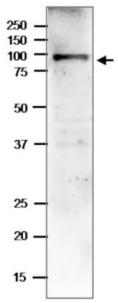
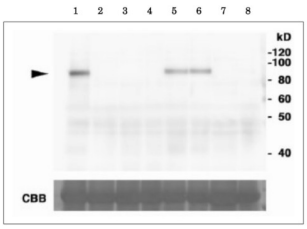
|---|---|
| **Recommended dilution** | assay dependent (ELISA), 1:100-1: 500 (IP), 1: 1000-1: 2000 (WB) |
| **Expected \| apparent MW** | 68 \| 85 kDa (due to a large number of hydrophobic residues) |
| **Confirmed reactivity** | *Arabidopsis thaliana* |
| **Predicted reactivity** | Species of your interest not listed? Contact us |
| **Not reactive in** | No confirmed exceptions from predicted reactivity are currently known |
| **Selected references** | Yamada et al. (2013). Identification of two novel endoplasmic reticulum body-specific integral membrane proteins. Plant Physiol . 2013 Jan;161(1):108-20. doi: 10.1104/pp.112.207654. |




*Arabidopsis thaliana* 7 day-old seedlings were freshly extracted with 2x SDS-sample buffer (+ 2ME) for SDS-PAGE and denatured with 4X SDS buffer at 95°C for 5 min. Protein load/well is 10 µg. Sample was separated on 12.5 % SDS-PAGE and blotted at 15V overnight using wet transfer to PVDF membrane. Blot was blocked with 3 % skim milk/TBS-T, 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 2000 in TBS-T for 1h/RT. The antibody solution was decanted and the blot was washed 4 times for 10 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 in for 1h/RT with agitation. The blot was washed as above and developed with a chemiluminescent detection reagent, following manufacture's recommendation.
Calculated MW of MEB1 is 68 kDa, while apparent MW appears to be 85 kDa (due to a large number of hydrophobic residues)




Samples of 7-day old seedlings from *Arabidopsis thaliana* wild-type **(1)**, mutant *meb1-1* **(2)**, mutant *meb1-2* **(3)**, mutant *meb1-3* **(4)**, mutant

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*meb2-1* **(5)**, mutant *meb2-3* **(6)**, mutant *meb1-1 meb2-1* **(7)**, mutant *nal-1-1* **(8)** were freshly extracted with 2x SDS-sample buffer (+ 2ME) for SDS-PAGE and denatured with 4X SDS buffer at 95°C for 5 min. Samples were separated on 10% SDS-PAGE and blotted 1h to nitrocellulose membrane. Blot was blocked with 3 % skim milk/TBS-T, 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 2000 in TBS-T for 1h/RT. The antibody solution was decanted and the blot was washed 4 times for 10 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 in for 1h/RT with agitation. The blot was washed as above and developed with a chemiluminescent detection reagent, following manufacture's recommendation. Coomassie blue staining (CBB) shows the Rubisco large subunit, which served as aloading control.
NAI1 protein is MEB1 interacting protein.