Anti-RHD3 N-terminal (At) antibody, rabbit polyclonal

Product code	81-108
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	Synthetic peptide TDGRERGEDDTAFEKQSALF corresponding to RHD3 protein (98-117 amino acids) of *Arabidosis thaliana.*
Isotype	Rabbit IgG
Reactivity	Arabidopsis thaliana. Not tested in other species.
Special notes	N/A
Application	1. Western blotting (1/100~1/200)
Background	RHD3 (ROOT HAIR DEFECTIVE 3) protein is probable GTP-binding protein involved in cell wall expansion. Required for appropriate root and root hair cells enlargement. May inhibit vacuole enlargement during root hair cell expansion. Plays a role in cell wall biosynthesis and actin organization. Seems to act independently from auxin and ethylene pathways. May regulate membrane traffic from the Golgi apparatus towards the endoplasmic reticulum (ER). Length;802 amino acids. Molecular mass; 89,092 Subcellular location: Golgi apparatus membrane. ER membrane.
Data Link	UniProtKB P93042

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

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Data Images: 81-108 Anti-RHD3 N-terminal (At) antibody, rabbit polyclonal

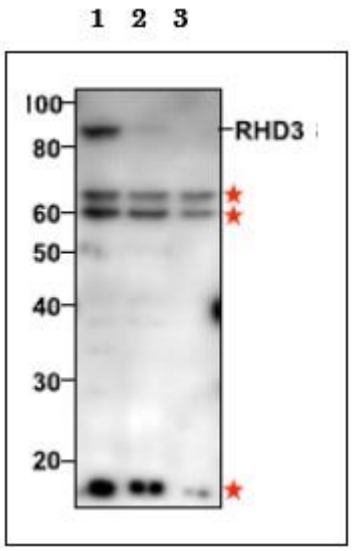

Fig.1 Validation of anti-RHD3 antibody with mutant plants

Samples; Total extracts of 5 to 7-day-old seedlings from wild type (1), *rhd3-1* (2) and *rhd3-2* (3) mutants.

The antibody was used at 1/100 dilution.

Asterisks indicate non-specific bands

Reference: This antibody used in the following publications.

1. Ueda H et al. Phosphorylation of the C Terminus of RHD3 Has a Critical Role in Homotypic ER Membrane Fusion in Arabidopsis. Plant Physiol. 2016 Feb;170(2):867-80. PMID: 26684656.**WB (Arabidopsis)**

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