Anti-ALEU (At) antibody, rabbit polyclonal

Product code	81-120
Size	100 µg
Storage	-20℃
Concentration	2.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum.
Immunogen	Recombinant His6-Aleu protein of *Arabidosis thaliana.*
Isotype	Rabbit IgG
Reactivity	Arabidopsis thaliana. Not tested in other species.
Special notes	N/A
Application	1. Western blotting (1/1,000-1/4,000)
Background	Aleu protein may play a role in proteolysis leading to mobilization of nitrogen during senescence and starvation. Catalytic activity: Hydrolysis of proteins, acting as an aminopeptidase (notably, cleaving Arg-|-Xaa bonds) as well as an endopeptidase. Length 358 amino acids with mass of 38,959 Da.Signal peptide 1-21 a.a. Prppeptide : 22-119 a.a. Subcellular localization: Vacuole
Data Link	UniProtKB Q8H166 (ALEU_ARATH)

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: 81-120 Anti-ALEU (At) antibody, rabbit polyclonal

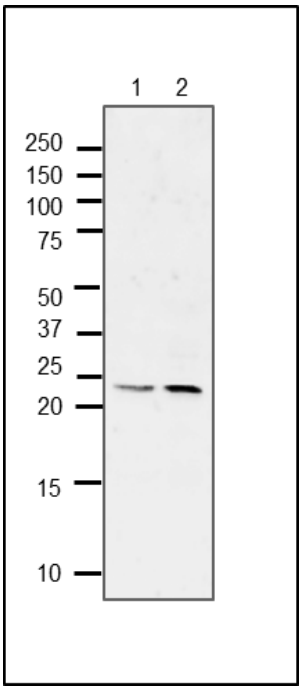

Fig.1 Western blot of ALEU protein in Arabidopsis seedlings

1. Crude extract of 7-day-seedlings of Arabidopsis.
2. Crude extract of 19-day-seedlings of Arabidopsis.

Proteins in the extracts were separated on SDS-PAGE (15-20% gradient gel) and blotted to PVDF membrane. The membrane was blocked with 3% skim milk. The anti-ALEU antibody was used at 1/2,000 dilution and as the second antibody, HRP-conjugated goat anti-rabbit IgG (ab97051) was used at 1/10,000 dilution.

The ALEU protein is synthesized as preproprotein with 39 kDa, the signal peptide of 21 amino acids is removed and the propeptide of N-terminal 119 amino acids is removed in the mature functional protein. The size of apparent molecular mass analyzed by Western blot agrees with the size of mature ALEU protein predicted (24 kDa).

Reference. This antibody was described in Ref.1 and used in the following publications.

1. Ueda H et al. AtVAM3 is required for normal specification of idioblasts, myrosin cells. Plant Cell Physiol. 2006 Jan;47(1):164-75. PMID: 16306062 **WB (arabidopsis)**
2. Takagi J et al. MAIGO5 functions in protein export from Golgi-associated endoplasmic reticulum exit sites in Arabidopsis. Plant Cell. 2013 Nov;25(11):4658-75. PMID: 24280388 **WB (arabidopsis)**

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Related Products

81-110 Anti-TGG1 (At) antibody, rabbit polyclonal

81-111 Anti-TGG2 (At) antibody, rabbit polyclonal

81-121 Anti-2S3P (At) antibody, rabbit polyclonal

81-119 Anti-VSR1 (At) antibody, rabbit polyclonal

81-122 Anti-2S3M (At) antibody, rabbit polyclonal

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