SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-ACA11 antibody

Catalog Number: SL2249R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ACA11
Immunogen:	KLH conjugated synthetic peptide derived from Arabidopsis thaliana ACA11: 201-300/1025
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Arabidopsis Thaliana)
Predicted MW.:	112 kDa
Subcellular Location:	The cell membrane
Background:	In plant cells, the vacuole functions as a major calcium store. Although a calmodulin-regulated Ca2+-ATPase (ACA4) is known to be present in prevacuolar compartments, the presence of an ACA-type Ca2+-ATPase in the mature vacuole of a plant cell has not been verified. Here we provide evidence that ACA11 localizes to the vacuole membrane. ACA11 tagged with GFP was expressed in stable transgenic plants, and visualized in root cells and protoplasts by confocal microscopy. A Ca2+-ATPase function for ACA11 was confirmed by complementation of yeast mutants. **Function:** This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol out of the cell or into organelles (By similarity).

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subcellular Location: Membrane; Multi-pass membrane protein. **Similarity:** Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIB subfamily. **Database links:** **Entrez Gene:** 824900 ARATH **SwissProt:** Q9M2L4 ARATH Arabidopsis

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