



## Rabbit Anti-ACA11 antibody

SL2249R

<b>Product Name:</b>	ACA11
<b>Chinese Name:</b>	拟南芥ACA11抗体
<b>Alias:</b>	calcium-transporting ATPase; Putative calcium-transporting ATPase 11, plasma membrane-type; Ca(2+)-ATPase isoform 11; autoinhibited Ca2+-ATPase 11(Arabidopsis thaliana); ACA11 ARATH.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Arabidopsis Thaliana,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	112 kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from Arabidopsis thaliana ACA11:201-300/1025
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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 Ca<sup>2+</sup>-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 Ca<sup>2+</sup>-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).

**Subcellular Location:**

Membrane; Multi-pass membrane protein.

**Similarity:**

Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIB subfamily.

**SWISS:**

Q9M2L4

**Gene ID:**

824900

**Database links:**

[Entrez Gene: 824900](#)ARATH

[SwissProt: Q9M2L4](#)ARATH

**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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