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[Marker Primary Antibody]

Rabbit Anti-ACA11/HRP Conjugated antibody

Catalog Number: SL2249R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-ACA11/HRP
Immunogen:	KLH conjugated synthetic peptide derived from Arabidopsis thaliana ACA11
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ELISA=1:500-5000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Arabidopsis Thaliana)
Background:	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). **Subcellular Location:** Membrane; Multi-pass membrane protein. **Similarity:** Belongs to the cation transport ATPase (P-type) (TC 3.A.3)

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

	family. Type IIB subfamily. **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. Arabidopsis