



## **Anti-APRR1(Two-component response regulator-like APRR1) Polyclonal Antibody**

**Category:** Polyclonal Antibody

**Catalog #:** AB2E312

**Antigen Synonym:** AIP1 (ABI3-interacting protein 1),  
TOC1 (Timing of CAB expression 1),  
MFB13.16

**Species Reactivity:** Plant Thale cress (*Arabidopsis thaliana*)

### **Immunogen/Specificity:**

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of Plant Thale cress (*Arabidopsis thaliana*) APRR1(Two-component response regulator-like APRR1)

**Description:** APRR1(Two-component response regulator-like APRR1) controls photoperiodic flowering response. APRR1 seems to be one of the component of the circadian clock. Expression of several members of the ARR-like family is controlled by circadian rhythm. The particular coordinated sequential expression of APRR9, APRR7, APRR5, APRR3 and APRR1 result to circadian waves that may be at the basis of the endogenous circadian clock.

APRR1 interacts with PIF1, PIL2, PIF3, PIF4, PIL5, PIL6, ABI3, ADO1 and ADO2.

APRR1 is expressed in leaves, flowers and siliques. It is expressed with a circadian rhythm showing a broad peak in the late day. APRR1 is negatively regulated by LHY and CCA1. APRR1 belongs to the ARR-like family and contains 1 CCT domain and 1 response regulatory domain.

### **Reference:**

Makino,S., et al, Plant Cell Physiol. 41 (6), 791-803 (2000)  
Strayer,C., et al, Science 289 (5480), 768-771 (2000)  
Kurup,S., et al, Plant J. 21 (2), 143-155 (2000)  
Sato,S., et al, DNA Res. 5 (1), 41-54 (1998)  
Matsushika,A., et al, Plant Cell Physiol. 41 (9), 1002-1012 (2000)  
Alabadi,D., et al, Science 293 (5531), 880-883 (2001)  
Makino,S., et al, Plant Cell Physiol. 43 (1), 58-69 (2002)

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