Datasheet for ABIN965585

anti-TOC1 antibody (N-Term)

7 Publications

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Overview

Quantity:	0.1 mg
Target:	TOC1
Binding Specificity:	N-Term
Reactivity:	Arabidopsis thaliana
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TOC1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC)

Product Details

Immunogen:	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)

Target Details

Target:	TOC1
Alternative Name:	APRR1 (TOC1 Products)
Background:	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 APPR1 result to

Target Details

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

Application Details

Restrictions:	For Research Use only

Handling

Storage:	4 °C

Publications

Product cited in:

Makino, Matsushika, Kojima, Yamashino, Mizuno: "The APRR1/TOC1 quintet implicated in circadian rhythms of Arabidopsis thaliana: I. Characterization with APRR1-overexpressing plants." in: **Plant & cell physiology**, Vol. 43, Issue 1, pp. 58-69, (2002) (PubMed).

Matsushika, Makino, Kojima, Mizuno: "Circadian waves of expression of the APRR1/TOC1 family of pseudo-response regulators in Arabidopsis thaliana: insight into the plant circadian clock." in: **Plant & cell physiology**, Vol. 41, Issue 9, pp. 1002-12, (2001) (PubMed).

Alabadí, Oyama, Yanovsky, Harmon, Más, Kay: "Reciprocal regulation between TOC1 and LHY/CCA1 within the Arabidopsis circadian clock." in: **Science (New York, N.Y.)**, Vol. 293, Issue 5531, pp. 880-3, (2001) (PubMed).

Makino, Kiba, Imamura, Hanaki, Nakamura, Suzuki, Taniguchi, Ueguchi, Sugiyama, Mizuno: " Genes encoding pseudo-response regulators: insight into His-to-Asp phosphorelay and circadian rhythm in Arabidopsis thaliana." in: **Plant & cell physiology**, Vol. 41, Issue 6, pp. 791-803, (2000) (PubMed).

Strayer, Oyama, Schultz, Raman, Somers, Más, Panda, Kreps, Kay: "Cloning of the Arabidopsis clock gene TOC1, an autoregulatory response regulator homolog." in: **Science (New York, N.Y.)**, Vol. 289, Issue 5480, pp. 768-71, (2000) (PubMed).

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