



# Rabbit anti-Arabidopsis thaliana COI1 (Middle region) Polyclonal Antibody (CABT-Z047R)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Immunogen</b>	Antibodies were produced by immunizing animals with a GST-fusion protein containing the middle region of arabidopsis thaliana COI1.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Arabidopsis thaliana
<b>Purification</b>	Antigen affinity purification
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB Recommended dilution: WB: 1:500-1:2,000 (detect endogenous protein*)
<b>Molecular Weight</b>	68 kDa
<b>Preparation</b>	Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the middle region of arabidopsis thaliana COI1 (AT2G39940).
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	100 µl
<b>Buffer</b>	Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN3.
<b>Preservative</b>	0.01% NaN3

<b>Storage</b>	Store at -20°C. Stable for 6 months from date of receipt.
----------------	---

<b>Ship</b>	Wet ice
-------------	---------

## BACKGROUND

### Introduction

COI1 is required for jasmonate-regulated plant fertility and defense processes, and for coronatine and/or other elicitors perceptions/responses. COI1 is required for the regulation of some genes induced by wounding. COI1 is a component of SCF(COI1) E3 ubiquitin ligase complexes, which may mediate the ubiquitination and subsequent proteasomal degradation of target proteins (probably including the ribulose biphosphate carboxylase small chain 1B RBCS-1B and the histone deacetylase HDA6). These SCF complexes play crucial roles in regulating response to jasmonate, and their interactions with the COP9 signalosome (CSN) appear to be important for their activity. COI1 interacts with TIFY10A and inositol pentakisphosphate to form a high-affinity jasmonates coreceptor. COI1 is also involved in the regulation of plant gene expression during plant-pathogen interactions with *Pseudomonas syringae* and *Alternaria brassicicola*.

<b>Keywords</b>	Coronatine-insensitive protein 1;F-box/LRR-repeat protein 2;AtCOI1;AtFBL2;FBL2;At2g39940;T28M21.10
-----------------	---

## GENE INFORMATION

<b>Gene Name</b>	COI1
------------------	------

<b>Entrez Gene ID</b>	<a href="#">818581</a>
-----------------------	------------------------

<b>UniProt ID</b>	<a href="#">O04197</a>
-------------------	------------------------