



Rabbit anti-Arabidopsis thaliana CPL1 (C-term) Polyclonal Antibody (CABT-Z050R)

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

PRODUCT INFORMATION

Immunogen	Antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of arabidopsis thaliana CPL1.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Arabidopsis thaliana
Purification	Antigen affinity purification
Conjugate	Unconjugated
Applications	WB Recommended dilution: WB: 1:500-1:2,000 (detect endogenous protein*)
Molecular Weight	108 kDa
Preparation	Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of arabidopsis thaliana CPL1 (AT4G21670).
Format	Liquid
Concentration	Lot specific
Size	100 μΙ
Buffer	Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN3.
Preservative	0.01% NaN3

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Storage	Store at -20°C. Stable for 6 months from date of receipt.
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Ship Wet ice

BACKGROUND

Introduction CPL1 processively dephosphorylates 'Ser-5' but not 'Ser-2' of the heptad repeats YSPTSPS in

the C-terminal domain of the largest RNA polymerase II subunit (RPB1). This promotes the activity of RNA polymerase II. Together with CPL2, CPL1 is required for male gametes fertility. CPL1 is a multifunctional regulator that modulates plant growth, stress, and phytohormones responses. CPL1 is a negative regulator of stress gene transcription involved in abscisic acid (ABA) mediated and jasmonic acid (JA) mediated signaling pathways, NaCl, osmotic stress, wounding, and cold resistance. CPL1 regulates negatively the expression of jasmonic acid (JA)

biosynthetic genes in response to wounding.

Keywords RNA polymerase II C-terminal domain phosphatase-like 1;FCP-like 1;Carboxyl-terminal

phosphatase-like 1;AtCPL1;CTD phosphatase-like 1;Protein FIERY 2;Protein JASMONATE

OVEREXPRESSING 1;JOE1;At4g21670;F17L22.130

GENE INFORMATION

Gene Name	CPL1
Entrez Gene ID	<u>828254</u>
UniProt ID	Q5YDB6