



Rabbit anti-Arabidopsis thaliana PHOT2 (Middle region) Polyclonal Antibody (CABT- Z108R)

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 middle region of arabidopsis thaliana PHOT2.
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	Predicted M.W.: 102 kDa; Observed M.W.: 140 kDa
Preparation	Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the middle region of arabidopsis thaliana PHOT2 (AT5G58140).
Format	Liquid
Concentration	Lot specific
Size	100 µl
Buffer	Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN ₃ .

Preservative	0.01% NaN ₃
Storage	Store at -20°C. Stable for 6 months from date of receipt.
Ship	Wet ice

BACKGROUND

Introduction	<p>Phot2 is a protein kinase that acts as a blue light photoreceptor in a signal-transduction pathway for photo-induced movements. Phot2 phosphorylates BLUS1, a kinase involved in stomatal opening. Phot2 mediates calcium spiking of extra- and intracellular origins in response to blue light. Phot2 is involved in hypocotyl phototropism. Phot2 contributes to the chloroplast accumulation in low blue light and mediates their translocation (avoidance response) at high fluence. Regulates stomata opening and photomorphogenesis response of leaf tissue. Phot2 is not involved in hypocotyl elongation inhibition, anthocyanin accumulation or cotyledon opening.</p>
Keywords	<p>Phototropin-2;Defective in chloroplast avoidance protein 1;Non-phototropic hypocotyl 1-like protein 1;AtKin7;NPH1-like protein 1;CAV1;KIN7;NPL1;At5g58140;K21L19.6;ATPHOT2</p>

GENE INFORMATION

Gene Name	PHOT2
Entrez Gene ID	835926
UniProt ID	P93025