

p-CRY1-S506 Rabbit pAb

Catalog No.: AP1236 **1 Publications**

Basic Information

Observed MW

Refer to figures

Calculated MW

Category

Primary antibody

Applications

ELISA, WB

Cross-Reactivity

Arabidopsis thaliana

Background

Encodes CRY1, a flavin-type blue-light photoreceptor with ATP binding and autophosphorylation activity. Functions in perception of blue / green ratio of light. The photoreceptor may be involved in electron transport. Mutant phenotype displays a blue light-dependent inhibition of hypocotyl elongation. Photoreceptor activity requires light-induced homodimerisation of the N-terminal CNT1 domains of CRY1. Involved in blue-light induced stomatal opening. The C-terminal domain of the protein undergoes a light dependent conformational change. Also involved in response to circadian rhythm. Mutants exhibit long hypocotyl under blue light and are out of phase in their response to circadian rhythm. CRY1 is present in the nucleus and cytoplasm. Different subcellular pools of CRY1 have different functions during photomorphogenesis of Arabidopsis seedlings.

Recommended Dilutions

WB 1:500 - 1:2000

Immunogen Information

Gene ID

826470

Swiss Prot

Immunogen

A phospho synthetic peptide corresponding to residues surrounding S506 of Arabidopsis thaliana CRY1.

Synonyms

ATCRY1; BLU1; BLUE LIGHT UNINHIBITED 1; cryptochrome 1; CRYPTOCHROME 1 APOPROTEIN (BLUE LIGHT PHOTORECEPTOR; ELONGATED HYPOCOTYL 4; HY4; OOP2; OUT OF PHASE 2; T3H13.14; T3H13_14; p-CRY1-S506

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.