Order: (888)-282-5810 (Phone)
(818)-707-0392 (Fax)
order@abiocode.com
Web: www.Abiocode.com

COP1 (M) Antibody, Rabbit Polyclonal

Cat#: R1253-2

Lot#: Refer to vial

Quantity: 100 ul

Application: WB

Predicted I Observed M.W.: 76 I 82 kDa

Uniprot ID: P43254

Background:

Constitutive photomorphogenesis protein 1 (COP1) is an E3 ubiquitin-protein ligase that acts as a repressor of photomorphogenesis and as an activator of etiolation in darkness. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. COP1 represses photomorphogenesis in darkness by mediating ubiquitination and subsequent proteasomal degradation of light-induced transcription factors such as HY5, HYH and LAF1. Cop1 also down-regulates MYB21, probably via ubiquitination process. Light stimuli abrogate the repression of photomorphogenesis, possibly due to its localization to the cytoplasm. COP1 could play a role in switching between skotomorphogenetic and photomorphogenetic pathways.

Other Names:

E3 ubiquitin-protein ligase COP1, Constitutive photomorphogenesis protein 1

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the middle region of *arabidopsis thaliana* COP1 (At2g32950). Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN_3. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Arabidopsis thaliana

Tested Applications:

WB: 1:500-1:2,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Order: (888)-282-5810 (Phone)
(818)-707-0392 (Fax)
order@abiocode.com
Web: www.Abiocode.com

Product Data:

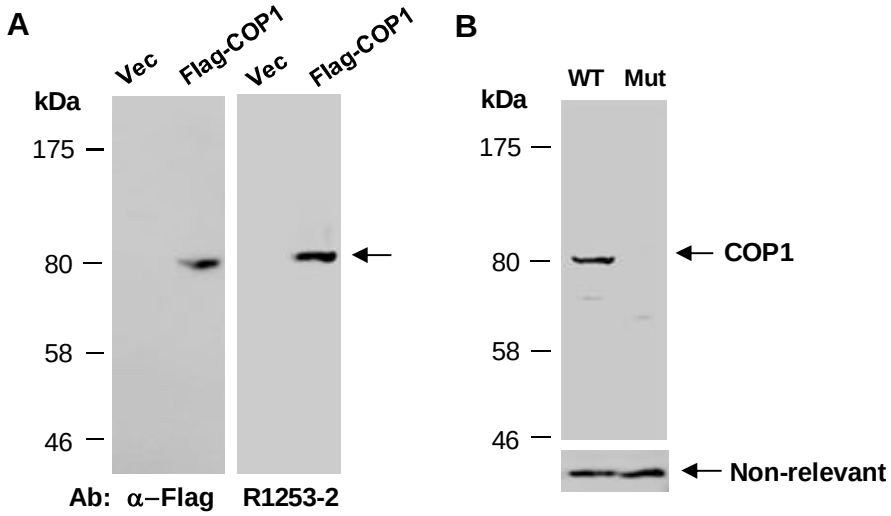

Fig 1. A) *Western blot analysis of total protein extracts from human 293T cells transfected with vector (Vec) or Flag-tagged COP1, using indicated Abs at RT for 2 h.* ***B)*** *Western blot analysis of equal amounts of protein extracts from wild type (WT) or COP1-deficient mutant (Mut) arabidopsis leaves harvested 22 h post light stimulation under the long-day photoperiod condition, using anti-COP1 (M) (R1253-2) at RT for 2 h. The same filter was re-probed with a non-relevant ab for loading controls.*