

product **AS08 342**

COP1 | constitutive photomorphogenesis protein 1

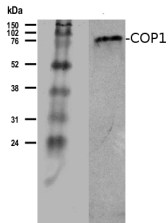
product information

background	COP1 (E3 ubiquitin-protein ligase COP1) is involved in phytochrome signaling pathway and acts as a repressor of photomorphogenesis and as an activator of etiolation in the darkness. COP1 is repressing photomorphogenesis in darkness by mediating ubiquitination followed by a subsequent proteasomal degradation of light-induced transcription factors (HY5, HYH and LAF1). This protein is localized in nucleus in the darkness and upon illumination is gradually transferred into cytoplasm.
immunogen	<u>KLH</u> - conjugated synthetic peptide derived from known COP1 sequences including <i>Arabidopsis thaliana</i> <u>P43254</u>
antibody format	rabbit polyclonal affinity purified lyophilized
quantity	200 µg - for reconstitution add 200 µl of sterile water
storage	store lyophilized/reconstituted at -20 °C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
tested applications	Western blot (WB)
additional information	to be added when available

application information

recommended dilution	1: 2000 with standard (ECL)
expected apparent MW	76 kDa (<i>Arabidopsis thaliana</i>)
confirmed reactivity	<i>Vicia faba</i>
predicted reactivity	dicots including: <i>Arabidopsis thaliana</i> , <i>Brassica napus</i> , <i>Pisum sativum</i> , <i>Ricinus communis</i> , <i>Solanum lycopersicum</i> , monocots including: <i>Oryza sativa</i> , moss: <i>Physcomitrella patens</i>
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	to be added when available
selected references	to be added when available, antibody released in March 2011

application example



3.5 µg of total protein from 4-day old *Vicia faba* roots, was separated on 12 % SDS-PAGE and blotted 50 min to PVDF membrane. Blots were blocked immediately following transfer in MTBS-T (5 % milk) for 30 min. at RT with agitation. Blots were incubated in the primary antibody at a dilution of 1: 2000 for 1 h at RT with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, followed by a 3 times wash for 3 min. in TBS-T at RT with agitation. Blots were incubated with secondary antibody (anti-rabbit IgG, HRP conjugated from Agrisera, [AS09 602](#)) in 1: 20 000 dilution for 30 min. at RT with agitation. The blots were washed as above and developed for 5 min. with ECL Advance detection reagent (GE Healthcare) according to the manufacturer's instructions. Exposure time was 60 seconds.

Courtesy of Dr. Dorota Rybaczek