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Product no AS24 5046

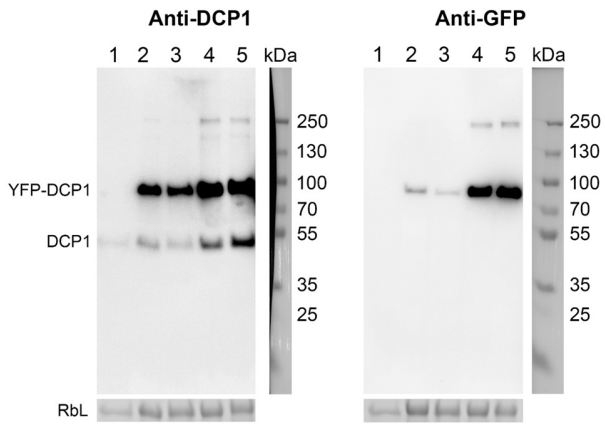
Anti-DCP1 | mRNA-decapping enzyme subunit

Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* DCP1 sequence, UniProt: Q9SJF3 TAIR: AT1G08370
Host	Rabbit
Clonality	Polyclonal
Purity	Antigen affinity purified serum, in PBS pH 7.4
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution, add 50 µl of sterile or deionized 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.

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	40.6 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	Antibody is also recognizing DCP1 tagged witth GFP and YFP.
Selected references	To be added when available. Antibody released in October 2025.



1) Col-0 (*Arabidopsis thaliana* leaf)

2) YFP-DCP1, mock-treated (*Arabidopsis thaliana* leaf)

3) YFP-DCP1, Pst-infected (*Arabidopsis thaliana* leaf)

4) YFP-DCP1/atg5-1, mock-treated (*Arabidopsis thaliana* leaf)

5) YFP-DCP1/atg5-1, Pst-infected (*Arabidopsis thaliana* leaf)

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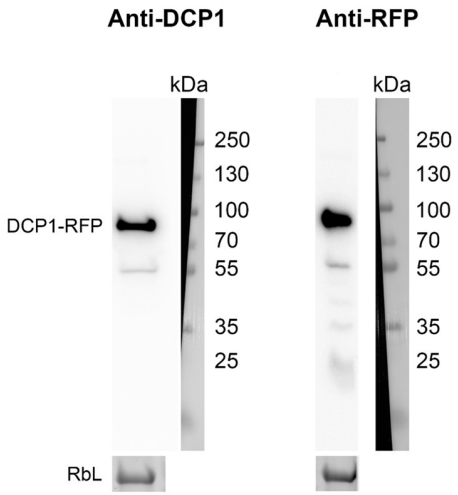

DCP1-RFP (transient expression in *Nicotiana benthamiana*)

Total protein extracted freshly from 2 leaf discs (Ø6 mm) of 4-week-old *Arabidopsis thaliana* or *Nicotiana benthamiana* leaves in 150 µL extraction buffer (100 mM Tris pH=7.5, 1mM EDTA, 3% SDS) + 50 µL 4X Laemmli buffer and denatured at 95°C for 10 min. Samples were separated in on 10 % SDS-PAGE, total protein was visualized via Stain Free imaging and blotted to PVDF membrane (pore size of 0,2 µm), using semi-dry transfer (7 min; 1.3A up to 25V). Blot was blocked with 5 % milk for 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 2000 ON/4°C with agitation. The antibody solution was decanted, and the blot was rinsed briefly twice, then washed once for 15 min and 2 times for 5 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1: 10 000 in 5% milk for 1h/RT with agitation. The blot was washed as above, plus one last wash with TBS (without Tween) for 5 min and developed with a chemiluminescent detection reagent. Exposure times were: 5, 13, 0.5 and 5 seconds (DCP1 and GFP in *Arabidopsis thaliana*, and DCP1 and RFP in *Nicotiana bentamiana*, respectively).

Courtesy of Dr. Manuel Gonzalez Fuente Ruhr-Universität Bochum, Germany