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Product no AS18 4221

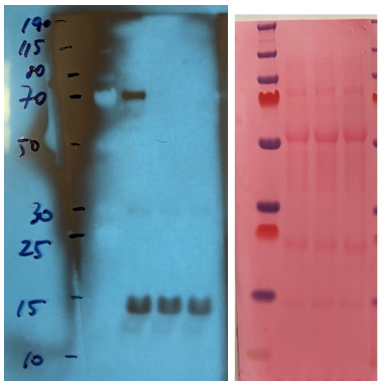
CRY2 | Cryptochrome 2

Product information

Immunogen	Part of *Arabidopsis thaliana* CRY2 protein sequence, UniProt:Q96524, TAIR: At1g04400 Antigen used to elicit CR2 antibodies is not conserved in CRY1 protein.
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 50 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 the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	69.5 | 70 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Camelina sativa, Capsella rubella* Species of your interest not listed? Contact us
Not reactive in	*Poplar* sp.
Selected references	To be added when available, antibody available in January 2022.



Samples:
50 µg of *Arabidopsis thaliana* whole seedlings (7 days old)
1 - *cry1-304* (overexpressing line)
2 - *cry2-1* (deletion mutant of both isoforms)
3 - *cry1-304 cry2-1* (substitution mutant)

Mark: MW markers: PageRuler™ Plus Prestained Protein Ladder from Thermo Scientific™ (26619)

8 µl/well of total protein extracted freshly from 50 ug of *Arabidopsis thaliana* seedlings (7-day WL grown) with 8M Urea, 0.35M Tris-Cl (pH 7.5), 1× protease inhibitor cocktail. and denatured with 6x SDS buffer at 95°C for 10 min. Samples were separated o 4-12 % gradient SDS-PAGE (Invitrogen) and transferred 7 min to nitrocellulose (pore size of 0.2 µm), using transfer device (iBlot2, Thermofischer). Blot was blocked with 2 % milk 1h/RTwith agitation. Blot was incubated in the primary antibody at a dilution of 1: 1,000 for ON/4°C without agitation. The antibody solution was decanted and the blot was washed 3 times for 10 min in TBS-T at RT with agitation. Blot was incubated in Agrisera matching secondary antibody (goat anti-rabbit HRP conjugated AS09 602) diluted to 1:25 000 in for 3h/RT with agitation. The blot was washed as above and developed with AgriseraECLSuperBright AS16 ECL-S-100, using Summit QCP. Exposure time was 5 seconds.

Courtesy of Dr. Sanghwa Lee, Salk Institute for Biological Studies, USA