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Product no AS23 4890

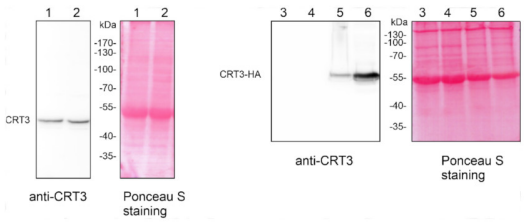
Anti-CRT3 | Calreticulin-3

Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* CRT3 protein, UniProt: O04153 TAIR:AT1G08450
Host	Rabbit
Clonality	Polyclonal
Purity	Antigern affinity purified serum, in PBS pH 7.4
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 50µl, 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	45 | 47 kDa (dependent on the signal peptide cleavage and N-glycosylation)
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Nicotiana benthamiana* Species of your interest not listed? Contact us
Not reactive in	*Petunia x hybrida*
Selected references	To be added when available, antibody available in August 2025.



1 – 50 µg of *Arabidopsis thaliana* Col-0 wild type seedling extract 2 – 50 µg of *Arabidopsis thaliana* crt1 crt2 mutant seedling extract 3 – 50 µg of *Nicotiana benthamiana* leaf extract (mock infiltrated with empty vector control)
4 – 50 µg of *Nicotiana benthamiana* leaf extract transiently expressing *A. thaliana* CRT2-RFP fusion protein
5 – 50 µg of *Nicotiana benthamiana* leaf extract transiently expressing *A. thaliana* CRT3-HA fusion (HA-tag)
6 – 50 µg of *Nicotiana benthamiana* leaf extract transiently expressing *A. thaliana* CRT3-HA fusion (HA-tag, higher OD600 used for infiltration than in 5)

50 µg/well of total protein extracted freshly from *A. thaliana* seedlings. Exact buffer components were: 1 x PBS supplemented with 1 % (v/v) Triton X-100 and denatured with Laemmli buffer at 95 °C for 5 min. Samples were separated at room temperature by 10 % SDS-PAGE and blotted for 1 h to a nitrocellulose membrane (pore size of 0.45 µm), using wet transfer with a cooling block. The blot was blocked with 5 % (w/v) milk in TBS-T for 1 h/RT with agitation. The blot was incubated in the primary CRT3 antibody at a dilution of 1:1000 in TBS-T overnight at 4°C with agitation. The antibody solution was decanted, and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. The blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:30000 in TBS-T for 2h/RT with agitation. The blot was washed as above and developed with a following chemiluminescent detection reagent: AgriseraBright. Exposure time was 10 seconds (Fusion FX, Vilber). For *Nicotiana benthamiana* samples: Leaves were extracted with RIPA buffer (Sigma Aldrich). The other experimental details were the same as for A. thaliana.

Courtesy Dr. Richard Strasser, Department of Applied Genetics and Cell Biology, BOKU, Austria