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Product no AS22 4701

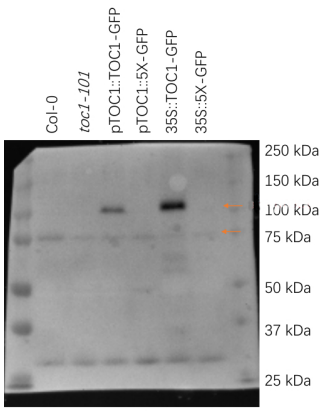
Anti-TOC1-P | TIMING OF CAB EXPRESSION 1 Arabidopsis clock gene, phosphorylated

Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* TOC1 phosphorylated protein sequence, UniProt: A0A178UC73, TAIR: AT5G61380
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	69.195 | kDa (due to N-terminal or C-terminal processing)
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	TOC1 is heat sensitive and requires specific extraction buffer and denaturation conditions, described in application example. Using other conditions, may contribute to lack of detection of phosphorylation of TOC1 using this antibody.
Selected references	To be added when available, antibody available in December 2022.



8 µg/well of total protein extracted freshly from 10-day-old *Arabidopsis thaliana* seedlings with extraction buffer (100 mM Tris·Cl, pH 7.5/150 mM NaCl/0.5% NP-40/1mM EDTA/3mM DTT/1 mM PMSF/2 mM NaF/2mM Na3VO4/1 µg ml-1 leupeptin/1 µg ml-1 aprotinin/1 µg ml-1 pepstatin/5 µg ml-1 antipain/5 µg ml-1 chymostatin/50 µM MG132/50 µM MG115/50 µM ALLN) and denatured at room temperature 24 °C for 3 min (TOC1 protein is very labile and sensitive to heat). Proteins were separated on 8% SDS-PAGE regular gels and blotted 1.5h to PVDF (pore size of 0.2 µm), using wet transfer. Blot was blocked with 5% milk for 1.5h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 in 5% non-fat milk TBS-T ON/4°C. The antibody solution was decanted, and the blot was rinsed briefly twice, then washed 3 times for 10 min in 5% non-fat milk TBS-T at RT with agitation. Blot was incubated in Agrisera goat anti-rabbit IgG (AS09 602) diluted to 1:25 000 in 5% non-fat milk for 1h/RT. The blot was washed 3 times for 10 min in TBS-T at RT with agitation and developed for 5 min with AgriseraSuperBright (AS16 ECL-S-10). The band marked by a lower arrow is an endogenous TOC1.

Courtesy of Dr. David E. Somers, Department of Molecular Genetics, The Ohio State University, USA