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Product no AS19 4317

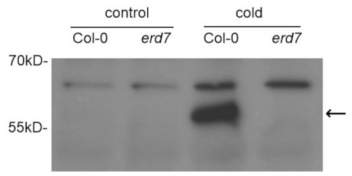
ERD7 | Early Response to Dehydration 7

Product information

Immunogen	KLH-conjugated peptide derived from Arabidopsis thaliana ERD7, UniProt: O48832 TAIR: AT2G17840
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µl
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 : 2000 (WB)
Expected | apparent MW	49 | 58 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Arabidopsis thaliana*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	To induce detectable levels of ERD7, plants need to be exposed to low temperature of 4 ºC for 24 h. The protein is detected in the microsomal fraction. (Barajas-Lopez et al, 2021)
Selected references	Barajas-Lopez et al. (2021) EARLY RESPONSE TO DEHYDRATION 7 Remodels Cell Membrane Lipid Composition during Cold Stress in Arabidopsis. Plant Cell Physiol. 2021 Mar 25;62(1):80-91. doi: 10.1093/pcp/pcaa139. PMID: 33165601.



Ten µg of total protein extracted freshly from *Arabidopsis thaliana* total leaf with protein extraction buffer (Tris-HCl 50 mM pH 8.0, 150 mM NaCl, 1% Triton X-100, 0.1% SDS, 0.5% Na-Deoxycholate, 2 mM PMSF, 2 mM DTT) and denatured with Laemmli sample buffer containing 2% beta-mercaptoethanol at 70°C for 10 min. Samples were separated on 10% SDS-PAGE and blotted 1h to PVDF using semi-dry transfer. Blot was blocked with 5% non-fat milk for 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 2 000 in TBS-T with 1% milk for ON/4°C with agitation. The antibody solution was decanted and the blot was rinsed briefly, then washed 3 times for 5-10 min in TBS-T at RT with agitation. Blot was incubated in Agrisera matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated AS09 602) diluted to 1:25 000 in TBS-T with 1% milk for 1h/RT with agitation. The blot was washed as above and developed for 5 min with chemiluminescent detection reagent according to manufacture's instructions. Exposure time was 1 min.

Courtesty Dr. Hiroaki Fujii, University of Turku, Finland