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Product no AS10 676

Anti-eEF1B-gamma1 and 2 | elongation factor 1-gamma 1 and 2

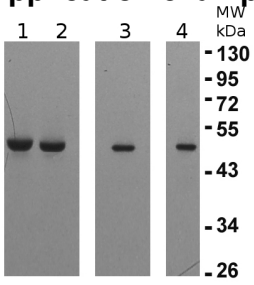
Product information

Immunogen	Recombinant eEF1B-gamma1 protein from *Arabidopsis thaliana* with no affinity tag,UniProt: O04487, TAIR: At1g09640
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	200 µl
Reconstitution	For reconstitution add 200 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.
Additional information	Antibody is recognizing elongation factor 1-gamma 1 and gamma 2

Application information

Recommended dilution	1 : 3000 (WB)
Expected | apparent MW	46 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Oryza sativa, Solanum tuberosum, Zea mays, Vitis vinifera* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Lohmann et al. (2023). Arabidopsis translation factor eEF1B impacts plant development and is associated with heat-induced cytoplasmic foci. J Exp Bot. 2023 Apr 18;74(8):2585-2602. doi: 10.1093/jxb/erad050. McLoughlin et al. (2019) HSP101 Interacts with the Proteasome and Promotes the Clearance of Ubiquitylated Protein Aggregates. Plant Physiol. 2019 Aug;180(4):1829-1847. doi: 10.1104/pp.19.00263 McLoughlin et al. (2016) Class I and II Small Heat Shock Proteins Together with HSP101 Protect Protein Translation Factors during Heat Stress. Plant Physiol. 2016 Oct;172(2):1221-1236.

Application example



10 µg total protein extracted from 15 day old *Arabidopsis thaliana* seedlings that were either kept at 22ºC **(1)** or heat treated at 38ºC for 2 hours prior to protein extraction **(2)**. As positive control 10 ng of recombinant elongation factor proteins gamma 1 **(3)** and gamma 2 **(4)** were separated side by side with the plant samples on 11% SDS-PAGE and blotted to nitrocellulose (Bio-rad). Blots were blocked following transfer with 5% low fat milk in low salt buffer for 1h at room temperature with agitation. Blots were incubated in the primary antibody at a dilution of 1: 2000 for 2h at room temperature with agitation in the blocking solution. The primary antibody solution was removed and the blot was rinsed briefly twice, then washed 4 times for 15 min each at room temperature with agitation using low salt buffer. Blots were incubated in secondary antibody (anti-rabbit IgG horse radish peroxides conjugated), diluted to 1:2500 for 1h at room temperature with agitation then washed as above and treated with ECL detection reagent according to the manufacturers instructions. Exposure time was 5 seconds.

Low salt buffer components are 10 mM Tris (pH 7.6), 68 mM NaCl and 0.05 % Triton X-100.