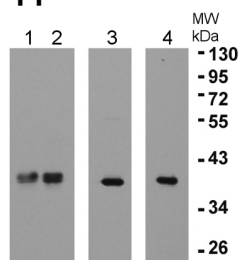


Product no **AS10 677****Anti-eEF1B-beta1 and 2 | elongation factor 1-beta1 and 1-beta2****Product information**

| | |
|-------------------------------|---|
| Immunogen | recombinant eEF1B-beta1 protein from <i>Arabidopsis thaliana</i> with no affinity tag, P48006 , At1g30230 |
| 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 both proteins: elongation factor beta 1 and beta 2 |

Application information

| | |
|-------------------------------|--|
| Recommended dilution | 1 : 2000 (WB) |
| Expected apparent MW | 25 39 kDa |
| Confirmed reactivity | <i>Arabidopsis thaliana</i> |
| Predicted reactivity | <i>Oryza sativa</i> , <i>Ricinus communis</i> , <i>Solanum tuberosum</i> , <i>Zea mays</i> , <i>Vitis vinifera</i> Species of your interest not listed? Contact us |
| Not reactive in | No confirmed exceptions from predicted reactivity are currently known |
| Selected references | McLoughlin et al. (2019) HSP101 Interacts with the Proteasome and Promotes the Clearance of Ubiquitylated Protein Aggregates. <i>Plant Physiol.</i> 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. <i>Plant Physiol.</i> 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 22°C (**1**) or heat treated at 38°C for 2 hours prior to protein extraction (**2**). As positive control 10 ng of recombinant elongation factor proteins beta 1 (**3**) and beta 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. The primary antibody could be reused if it is kept at 4°C for 2 weeks and if frozen at -20°C for long time.

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