

product **AS10 677**

eEF1B-beta1 and 2 | elongation factor 1-beta1 and 1-beta2

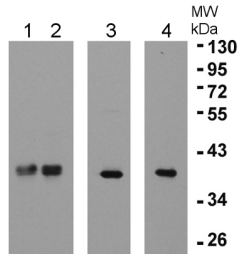
product information

background	eEF1B-beta1 protein belongs to a family of elongation factors, proteins which are involved in translational elongation. Alternative names: Elongation factor 1-delta 1, EF-1-delta 1
immunogen	recombinant eEF1B-beta1 protein from <i>Arabidopsis thaliana</i> with no affinity tag, P48006
antibody format	rabbit polyclonal serum lyophilized
quantity	200 µl 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 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.
tested applications	western blot (WB)
additional information	Antibody is recognizing both proteins: elongation factor beta 1 and beta 2

application information

recommended dilution	1: 2000 with standard ECL (WB)
expected apparent MW	25 39 kDa
confirmed reactivity	<i>Arabidopsis thaliana</i>
predicted reactivity	dicots including: <i>Ricinus communis</i> , <i>Solanum tuberosum</i> , <i>Vitis vinifera</i> , monocots including: <i>Oryza sativa</i> , <i>Zea mays</i>
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	to be added when available
selected references	to be added when available, antibody released in June 2010

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, from Amersham 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.