

product **AS10 678**

eEF1B-alpha1 an 2 | elongation factor 1B-alpha 1 and 1B-alpha 2

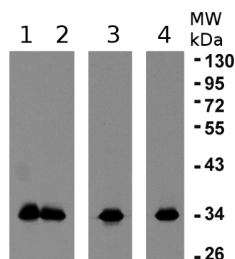
product information

background	eEF1B-alpha1 protein belongs to a family of elongation factors, proteins which are involved in translational elongation. This protein is a component of elongation factor B-complex which is composed of 2 elongation B-alpha-(1 and 2), 2 elongation factors B-beta (1 and 2) and 2 elongation factors B-gamma (1 and 2). Alternative names:
immunogen	recombinant eEF1B-alpha1 protein from <i>Arabidopsis thaliana</i> with no affinity tag, <u>Q84WM9</u>
antibody format	rabbit polyclonal serum lyophilized
quantity	100 µl for reconstitution add 100 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 elongation factor alpha 1 and alpha 2.

application information

recommended dilution	1: 3000 with standard ECL (WB)
expected apparent MW	24 34 kDa
confirmed reactivity	<i>Arabidopsis thaliana</i>
predicted reactivity	dicots including: <i>Glycine max</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 alpha 1 (**3**) and alpha 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. The pre-immune did not cross react with any plant protein non-specifically. Low salt buffer components are 10 mM Tris (pH 7.6), 68 mM NaCl and 0.05 % Triton X-100.