



product **AS11 1633** 

## EF1A | elongation factor 1-alpha / EF-1-alpha

## product information

**background EF1A** (elongation factor 1-alpha) belongs to the GTP-binding elongation factor

family and is localized in the cytoplasm. It is an essential enzyme in elongation phase of protein synthesis. There are four genes encoding EF1A in *Arabidopsis*,

sequences of genes 1,2 and 3 are identical. Synonymes:eEF-1A.

immunogen full length, recombinant EF1A of Arabidopsis thaliana P13905

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 to be added when available

## application information

recommended dilution 1:1000 with standard ECL (WB)

expected | apparent 49.5 kDa

MW 49.5 KD

predicted reactivity dicots including: Brassica napus, Solanum tuberosum, Sorghum bicolor, monocots

including: Oryza sativa, Zea mays, trees: Populus trichocarpa, Picea sitchensis

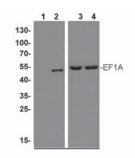
not reactive in recombinant wheat EF1A

additional information to be added when available

selected references to be added when available. Antibody released in February 2011.



## application example



10 µg total protein extracted from 15 day old Arabidopsis thaliana seedlings that were either kept at 22°C (3) or heat treated at 38°C for 2 hours prior to protein extraction (4). As positive control 10 ng of recombinant AtEF1A (2) were separated side by side with the plant samples on 10-15 % gradient 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: 1000 for O/N 4°C 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 Agrisera, AS09 602, diluted to 1:35 000 for 1h at room temperature with agitation then washed as above and treated with ECL detection reagent according to the manufacturer's instructions. Exposure time was 5 seconds.

Lane (1) with no signal: recombinant Triticum spp. EF1A.

Courtesy Dr. Eman Basha, Arizona State University



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