



product **AS10 934**

**eEF1a elongation factor | elongation factor 1-alpha**

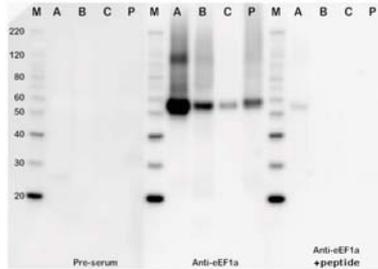
### product information

<b>background</b>	<b>EF1A</b> (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 <i>Arabidopsis</i> , sequences of genes 1,2 and 3 are identical. Synonymes:eEF-1A.
<b>immunogen</b>	<b>KLH</b> -conjugated synthetic peptide derived from known sequences of eEF1a including <i>Arabidopsis thaliana</i> EF-1-alpha 1 <a href="#">P0DH99</a> <a href="#">AT1G07940</a> EF-1-alpha 2 <a href="#">Q8W4H7</a> <a href="#">AT1G07930</a> , EF-1-alpha 3 <a href="#">Q0WL5</a> <a href="#">AT1G07920</a> , EF-1-alpha 4 <a href="#">Q8GTY0</a> <a href="#">AT5G6039</a>
<b>antibody format</b>	rabbit polyclonal serum lyophilized
<b>quantity</b>	200 µl for reconstitution add 200 µl, of sterile water.
<b>storage</b>	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.
<b>tested applications</b>	western blot (WB)
<b>additional information</b>	to be added when available

### application information

<b>recommended dilution</b>	1 : 1000 with standard ECL (WB)
<b>expected   apparent MW</b>	49.5 kDa
<b>confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Hordeum vulgare</i> , <i>Zea mays</i> , <i>Physcomitrella patens</i>
<b>predicted reactivity</b>	dicots including: <i>Daucus carota</i> , <i>Glycine max</i> , <i>Nicotiana tabacum</i> , <i>Pisum sativum</i> , <i>Solanum lycopersicum</i> , <i>Vicia faba</i> , monocots including: <i>Oryza sativa</i> , <i>Triticum aestivum</i> , trees: <i>Malus domestica</i> , other species: <i>Lilium longiflorum</i> , unicellular flagellate protists: <i>Euglena gracilis</i>
<b>not reactive in</b>	no confirmed exceptions from predicted reactivity known in the moment
<b>additional information</b>	to be added when available
<b>selected references</b>	to be added when available, antibody released in November 2012.

## application example



**5 µg of total protein** from *Arabidopsis thaliana* (**A**), *Hordeum vulgare* (**B**), *Zea mays* (**C**), *Physcomitrella patens* (**P**) extracted with Agrisera PEB buffer were separated on 4-12 % SDS-PAGE and blotted 70 min to PVDF. Blots were blocked with ECL Advance Blocking Reagent (GE Healthcare) for 1h at room temperature (RT) with agitation. Blot was incubated for 1 h with either rabbit pre-serum (1: 10 000), rabbit anti-eEF1alpha antibody (1: 10 000) and anti-eEF1 alpha serum incubated with eEF1alpha synthetic peptide (in 100 mM excess to saturate a signal from specific antibody) for 1h at RT with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, AS09 602, Agrisera ) diluted to 1:50 000 in for 1h at RT with agitation. The blot was washed as above and developed for 5 min with ECL according to the manufacturers instructions. Exposure time was 2 minutes.



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