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**Product no AS15 2867**

# Anti-RpoB | RNA polymerase beta subunit (chloroplast)

## Product information

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|---|---|
| **Immunogen** | His-tagged, highly conserved fragment of *Zea mays* RpoB gi\|540067377\|gb\|AGV02730.1\| RNA polymerase beta subunit (chloroplast) [Zea mays subsp. mays], UniProt: A0A059Q6W3 |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Purity** | Immunogen affinity purified serum in PBS pH 7.4. |
| **Format** | Lyophilized |
| **Quantity** | 100 µg |
| **Reconstitution** | For reconstitution add 50 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. |

## Application information

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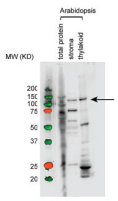
| **Recommended dilution** | 1 : 500 (WB) |
| **Expected \| apparent MW** | 121 kDa |
| **Confirmed reactivity** | *Arabidopsis thaliana* |
| **Predicted reactivity** | *Alloteropsis semialata,Campanula americana, Cannabis sativa, Coleataenia prionitis, Digitaria exilis, Echinochloa crus-galli var. crus-galli , Eragrostis tef, Microlaena stipoides, Miscanthus sacchariflorus, Oryza sativa, Phragmites australis, Potamophila parviflora, Rhynchoryza subulata, Saccharum officinarum, Setaria italica, Sorghum bicolor, Spinacia oleracea, Stipa lipskyi, Sporobolus michauxianus, Triticum aestivum*<br>Species of your interest not listed? Contact us |
| **Not reactive in** | No confirmed exceptions from predicted reactivity are currently known |
| **Additional information** | Antibody does not work on total cell extracts. Stromal fraction has to be used.<br>This antibody is detecting recombinant RpoB. |
| **Selected references** | Vergara-Cruces (2024). Structure of the plant plastid-encoded RNA polymerase. Cell . 2024 Feb 29;187(5):1145-1159.e21. doi: 10.1016/j.cell.2024.01.036.<br>Zhang et al. (2017). PDM3, a pentatricopeptide repeat-containing protein, affects chloroplast development. J Exp Bot. 2017 Nov 28;68(20):5615-5627. doi: 10.1093/jxb/erx360. |

**Application example**




Stroma, thylakoid and total protein from *Arabidopsis thaliana* were extracted with 50 mM HEPES-KOH pH 8, 330 mM sorbitol exaction buffer. Components were separated on 12% SDS-PAGE and blotted overnight to Nitrocellulose membrane using wet transfer. Blots were blocked with 5% non-fat milk for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 500 for 2h 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) diluted to 1:10 000 in for 1h at RT with agitation. The blot was washed as above and developed for 5min with chemiluminescent reagent of extreme low femtogram range. Exposure time was 120 seconds.

Courtesy of Jie Shen and Dr. Alice Barkan, University of Oregon, USA