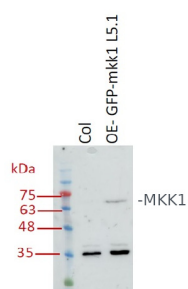


Product no **AS15 2904****Anti-MKK1 | Mitogen-activated protein kinase kinase 1****Product information**

|                       |                                                                                                                                                                                                                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen</b>      | KLH-conjugated synthetic peptide derived from <i>Arabidopsis thaliana</i> MKK1 protein sequence, UniProt: <a href="#">Q94A06</a><br>GeneID: AT4G26070                                                                                                                                       |
| <b>Host</b>           | Rabbit                                                                                                                                                                                                                                                                                      |
| <b>Clonality</b>      | Polyclonal                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>         | Antigen affinity purified serum, in PBS pH 7.4                                                                                                                                                                                                                                              |
| <b>Format</b>         | Lyophilized                                                                                                                                                                                                                                                                                 |
| <b>Quantity</b>       | 100 µg                                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | For reconstitution add 50 µl of sterile water.                                                                                                                                                                                                                                              |
| <b>Storage</b>        | Store lyophilized/reconstituted at -20 °C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles.<br>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. |

**Application information**

|                               |                                                                                                                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recommended dilution</b>   | 1: 1000 (WB)                                                                                                                                                                                                               |
| <b>Expected   apparent MW</b> | 28   30 kDa                                                                                                                                                                                                                |
| <b>Confirmed reactivity</b>   | <i>Arabidopsis thaliana</i> recombinant MKK1                                                                                                                                                                               |
| <b>Predicted reactivity</b>   | <i>Hordeum vulgare</i> , <i>Musa sp.</i> , <i>Oryza sativa</i> , <i>Phaseolus vulgaris</i> , <i>Physcomitrium patens</i> , <i>Solanum tuberosum</i> , <i>Ricinus communis</i> , <i>Triticum aestivum</i> , <i>Zea mays</i> |
| <b>Not reactive in</b>        | <i>Ostreococcus tauri</i>                                                                                                                                                                                                  |
| <b>Additional information</b> | This antibody is recognizing recombinant MKK1 of <i>Arabidopsis thaliana</i> . Reactivity on endogenous extract remains to be determined.                                                                                  |
| <b>Selected references</b>    | To be added when available, antibody released in February 2026.                                                                                                                                                            |

**Samples:**Col - *Arabidopsis thaliana* wild typeOE-GFP-MKK1 - *Arabidopsis thaliana* overexpressing MKK1 tagged with GFP

20 µg of total protein extracted freshly from 7 days-old *Arabidopsis thaliana* seedlings with Lysis buffer (25 mM Tris-HCl pH 7.5, NaCl 150 mM, 1% Nonidet, 0.1% SDS and Protease inhibitor cocktails) and denatured with Laemmli buffer at 75°C for 10 min. The samples were separated on 10% SDS-PAGE and blotted 1h to nitrocellulose (pore size: 0.45 µm) using wet transfer. Blot was blocked with 5% milk for RT/ 1h with agitation. Blot was blocked in the primary antibody at a dilution of 1: 500 for 4°C/ON with agitation in PBS-T. The antibody solution was decanted, and the blot was rinsed briefly twice, then washed once for 10 min and 5 times for 10 min in PBS-T at RT with agitation. Blot was incubated in Agrisera matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, [AS09 602](#)) diluted to 1: 25 000 for 1h/RT with agitation. The blot was washed as above and developed for 5 min with Agrisera ECLBright. Exposure time was 30 seconds.

Conditions for MKK1 detection in wild type samples need to be determined. Suggested is: increased protein load/well to 50 µg combined with primary antibody incubation 4°C/ON and detection reagent of highest sensitivity.