

This product is for research use only (not for diagnostic or therapeutic use)

contact: support@agrisera.com

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no AS15 2905

MKK2 | Mitogen-activated protein kinase kinase 2

Product information

Immunogen KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* sequence of MKK2, UniProt: Q9S7U9. TAIR: AT4G29810

Host Rabbit

Clonality Polyclonal

Purity Immunogen affinity purified serum in PBS pH 7.4.

Format Lyophilized

Quantity 50 μg

Reconstitution - for reconstitution add 50 μl of sterile water

Storage 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

Application information

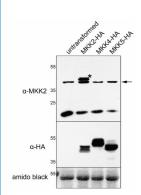
Recommended dilution 1:1000 (WB)

Expected | apparent 38.8 kDa

Not reactive in

Additional information Reactivity on other tissues of *Arabidopsis thaliana* has not been confirmed as yet.

Application example



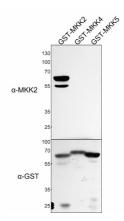
Arabidopsis thaliana mesophyll protoplasts (CoI-0) were isolated and transformed according to Yoo et al. (2007). 300 µl of protoplasts (2*105 protoplasts/ml) expressing MKK2/MKK4/MKK5-HA (or untransformed protoplasts as control) were pelleted by centrifugation. The resulting pellets were resuspended in standard Laemmli sample buffer and then the samples were denatured at 95°C for 5 min. Samples were separated on 10% SDS-PAGE and blotted 1 h onto NCL membrane using semi-dry transfer. The blot was blocked with 5% skimmed milk in TBS-T for 1h at room temperature (RT) with agitation. The blot was then incubated with the primary antibody (anti-MKK2) at a dilution of 1:1000 for 1 h at RT with agitation in 3% skimmed milk in TBS-T. The antibody solution was decanted and the blot was washed 4 times for 10 min with TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, Agrisera) diluted to 1:15000 in 3% skimmed milk in TBS-T for 1h at RT with agitation. The blot was washed as above and incubated for 5 min with highest sensitivity detection reagent. Arrow indicates endogenous MKK2, star indicates MKK2-HA. Exposure time was 2 minutes. As a control, the blot was re-probed with anti-HA after stripping.



This product is for research use only (not for diagnostic or therapeutic use)

contact: support@agrisera.com

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com



Courtesy Dr. Lennart Eschen-Lippold, Leibniz Institute of Plant Biochemistry, Germany

Optical densities (OD600) of IPTG-induced *E. coli* expressing GST-MKK2/MKK4/MKK5 were determined and sample volumes based on the equation 1/OD600 were centrifuged to pellet bacteria. The resulting pellets were resuspended in 7 M urea, mixed with standard Laemmli sample buffer and then the samples were denatured at 95 °C for 5 min. Samples were separated on 10% SDS-PAGE and blotted 1 h onto NCL membrane using semi-dry transfer. The blot was blocked with 5% skimmed milk in TBS-T for 1h at room temperature (RT) with agitation. The blot was then incubated with the primary antibody (anti-MKK2) at a dilution of 1:1000 for 1 h at RT with agitation in 3% skimmed milk in TBS-T. The antibody solution was decanted and the blot was washed 4 times for 10 min with TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, Agrisera) diluted to 1:15000 in 3% skimmed milk in TBS-T for 1h at RT with agitation. The blot was washed as above and incubated for 5 min with highest sensitivity detection reagent. Exposure time was 2 minutes. As a control, the blot was re-probed with anti-GST after stripping.

Courtesy Dr. Lennart Eschen-Lippold, Leibniz Institute of Plant Biochemistry, Germany