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

Product no AS12 2633

Anti-MPK6 | Mitogen-activated protein kinase 6

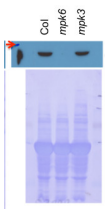
Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* MPK6 protein, UniProt: Q39026, TAIR: At2g43790
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	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

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	45 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Brassica napus, Gossypium mexicanum* Species of your interest not listed? Contact us
Not reactive in	*Lupinus luteus, Marchantia polymorpha, Picea abies, Solanum tuberosum*
Selected references	Ahn et al. (2023). Effector-dependent activation and oligomerization of plant NRC class helper NLRs by sensor NLR immune receptors Rpi-amr3 and Rpi-amr1. EMBO J. 2023 Mar 1;42(5):e111484. doi: 10.15252/embj.2022111484. Zhou et al. (2022). Phosphatidic acid modulates MPK3- and MPK6-mediated hypoxia signaling in Arabidopsis. Plant Cell . 2022 Feb 3;34(2):889-909. doi: 10.1093/plcell/koab289. Wilmowicz et al. (2021). EPIP-Evoked Modifications of Redox, Lipid, and Pectin Homeostasis in the Abscission Zone of Lupine Flowers. Int J Mol Sci. 2021 Mar 16;22(6):3001. doi: 10.3390/ijms22063001. Butler et al. (2019). Soybean resistance locus Rhg1 confers resistance to multiple cyst nematodes in diverse plant species. Phytopathology. 2019 Aug 12. doi: 10.1094/PHYTO-07-19-0225-R. Wang and Auwerx (2017). Systems Phytohormone Responses to Mitochondrial Proteotoxic Stress. Mol Cell. 2017 Nov 2;68(3):540-551.e5. doi: 10.1016/j.molcel.2017.10.006.

Application example



0.2g of 21 days old Arabidopsis thaliana leaf tssue C=Col, 6= mpk6 (T-DNA mutant), 3= mpk3 (T-DNA mutant) was homogenized with 250 µ l Buffer A(50 mM Tris – HCl pH 7.5, 0.33 M sucrose, 5 mM EDTA, 150 mM NaCl , complete protease inhibitor cocktail). The crude extracts were subjected to centrifugation at 10 000 g for 10 min to pellet the insoluble material. Material was extracted with 250 µl of Buffer A (50 mM Tris – HCl pH 7.5, 0.33 M sucrose, 5 mM EDTA, 150 mM NaCl, complete protease inhibitor cocktail). The crude extracts were subjected to centrifugation at 10 000 g for 10 min to pellet the insoluble material. Supernatant (120 µ L)+ 4XSDS sample buffer 40 µ L= 200 µ L samples 95 °C 5min 10 µ L were separated on 10 % SDS-PAGE and blotted 1h to PVDF using semi-dry transfer. Blots were blocked with skim milk for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody in TBS-T at a dilution of 1: 10 000 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

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agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, from Agrisera AS09 602) diluted to 1:75 000 in for 1h at RT with agitation. The blot was washed as above and developed with chemiluminescence according to the manufacturer's instructions.

Courtesy of Chika Tateda, University of Chicago, USA