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Product no AS15 2981

Anti-HSP26,5 | Heat shock protein 26,5 (mitochondrial)

Product information

Immunogen KLH-conjugated synthetic peptide derived from Arabidopsis thaliana HSP26.5, mitochondrial, UniProt: Q9SSQ8, TAIR:

At1g52560

Host Rabbit

Clonality Polyclonal

Purity Immunogen affinity purified serum in PBS pH 7.4.

Format Lyophilized

Quantity 50 ug

Reconstitution For reconstitution add 25 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.

Additional information Detection on total extracts needs to be optimized.

Antibody is recognizing HSP23.6 synthesized in vitro using the PURExpress in Vitro Protein Synthesis Kt (NEB).

Application information

Recommended dilution 1:1000 (WB)

Expected | apparent 26.5 | 23 kDa

MW 26.5 | 23 KD

Predicted reactivity | Glycine soja

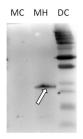
Species of your interest not listed? Contact us

Additional information

Please note that there might be no HSPs accumulation below temperature of 32-34°C. HSPs are induced when the plant experience temperatures higher than the growing temperature with around 10°C. So, the HSPs induction temperatures for plants grown at 18C differ from these for plants grown at 24°C.

Another very effective parameter is the humidity. When using low humidity the plant has a chance to cool down through transpiration. In this case the HSPs induction requires higher temperatures.

Application example



Mitochondrial enriched fractions were prepared from 4-week old *Arabidopsis thaliana* Col-0 rosette leaves (control, or heat shocked 3 h 38 °C) using the method of Huang et al (2013, Nature Comm. 4:2558). Crude mitochondria obtained from 3-4 g leaves were suspended in 50 μ L washing buffer (0.4 M sucrose, 50 mM Tris pH 7.5, 3mM EDTA, 0.1% BSA). For western blot analysis, 40 μ L of suspension were mixed with 10 μ L of 5X SDS-PAGE sample buffer (40 mM Tris pH 6.8, 0.8% SDS, 0.4% bromophenol blue, DTT 0.2 M, 20% glycerol), heat denatured at 95 °C for 3 min, separated on 13.5 % SDS-PAGE, and blotted 1 h to PVDF (0.2 μ m Immobilon PSQ transfer membrane, Millipore) using tank transfer (10 mM CAPS pH 11, 10% ethanol). After staining with Ponceau red, blot was blocked with TBS containing 1.5% Tween 20 by incubation at room temperature (RT). Blot was briefly rinsed three times with TBS-T (TBS with 0.05% Tween 20) and incubated overnight at 4 °C with the primary antibody at a dilution of 1:1 000 in TBS-T. The antibody solution was decanted and the blot was rinsed briefly twice, then washed 3 times for 15



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min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (goat anti-rabbit lgG horse radish peroxidase conjugated, from Agrisera) diluted to 1:75 000 in TBS-T for 1h at RT with agitation. The blot was washed as above and developed for 2 min with Clarity Western ECL (Biorad). DC: dual color markers (Biorad), 5 μ L MC: 10 μ L of mitochondria enriched fractions from control leaves MH: 10 μ L of mitochondria enriched fractions from heat-shocked leaves.

Remark: Protein were not measured in the extracts because of the presence of BSA. Coomassie blue staining confirmed similar protein content of crude mitochondria extract (estimated to around $2\mu g/\mu L$). Similar protein content of MC and MH extracts is also supported by the background with the AB HSP23.5 antibody.

Courtesy Dr. David Macherel, Mitostress team, IRHS, France.