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

Product no AS07 255

Anti-HSP17,7 | Cytosolic class II heat shock protein 17,7

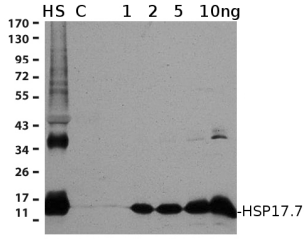
Product information

Immunogen	Full-length recombinant protein produced in *E. coli* and purified by conventional methods (no affinity tag). *Arabidopsis thaliana* Hsp17.7 CII (class two), UniProt: O81822, TAIR: At5g12030
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µl
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	17.7 kDa
Confirmed reactivity	*Arabidopsis thaliana, Agave tequiliana* var. Weber*, Cucumis sativus, Medicago sativa, Pinellia ternata, Silene vulgaris*
Predicted reactivity	Dicots, *Fraxinus* sp. Species of your interest not listed? Contact us
Not reactive in	*Oryza sativam, Polyscias elegans*
Selected references	Cha et al. (2020). Humic acid enhances heat stress tolerance via transcriptional activation of Heat-Shock Proteins in Arabidopsis. Sci Rep. 2020 Sep 14;10(1):15042.doi: 10.1038/s41598-020-71701-8. McLoughlin et al. (2019) HSP101 Interacts with the Proteasome and Promotes the Clearance of Ubiquitylated Protein Aggregates. Plant Physiol. 2019 Aug;180(4):1829-1847. doi: 10.1104/pp.19.00263 Fu et al. (2019). Increased fes1a thermotolerance is induced by BAG6 knockout. Plant Mol Biol. 2019 Feb 22. doi: 10.1007/s11103-019-00844-8. Korotaeva et al. (2018). Effect of Heat Hardening on Expression of Genes phb3 and phb4 and Accumulation of Phb Proteins in Green Leaves of Arabidopsis thaliana. Russian Journal of Plant Physiology, 65(5), 688-696, 2018. https://doi.org/10.1134/s1021443718040039 McLoughlin et al. (2016) Class I and II Small Heat Shock Proteins Together with HSP101 Protect Protein Translation Factors during Heat Stress. Plant Physiol. 2016 Oct;172(2):1221-1236.

Application example



15 µg of total protein from (**HS**) heat shocked (38ºC/2h) *Arabidopsis thaliana* , (**C**) *Arabidopsis thaliana* control plants, (**1,2,5,10**) 1,2,5,10 ng of recombinant puridfied HSP17.7 were separated on **15% SDS-PAGE** and blotted 1h to **nitrocellulose** (Biorad). Blots were incubated in the primary antibody at a dilution of 1: 1000 for 1h at room temperature with agitation and secondary HRP-conjugated antibody (1: 10 000). Development was done using chemiluminescent detection reagent, according to the recommendations of the manufacturers.
Image was acquired with a 10 sec exposure time on X-ray film (Kodak). Band at ~38 kDa represents and SDS resistant dimer.