

HSP101 | ClpB heat shock protein, C-terminal

Cat PA00529

Size 50 µl

Host

Rabbit

Clonality

Polyclonal

Confirmed reactivity

Arabidopsis thaliana, Agave tequilana, Citrus sp., Cucumis sativus L. var Krak

Immunogen

Recombinant protein of Arabidopsis thaliana Hsp101/ClpB, C-terminal 145 amino acids UniProt: P42730, TAIR: At1g74310

Host

Rabbit

Clonality

Polyclonal

Purity

Serum

Format

Lyophilized

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

Western blot (WB)

Recommended dilution

1 : 1000 (WB)

Expected | apparent MW

101 kDa

Confirmed reactivity

Arabidopsis thaliana, Agave tequilana, Citrus sp., Cucumis sativus L. var Krak

Predicted reactivity

Citrus sinensis, Glycine max, Nicotiana tabacum, Oryza sativa, Populus trichocarpa, Triticum aestivum, Vitis vinifera

Not reactive in

No confirmed exceptions from predicted reactivity are currently known

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Additional information

When using this antibody on a new species with this antibody perform a following experiment: prepare a leaf extract from a leaf without stress and one that has been heat stressed as follows: Take a whole leaf (in the case of plants with small leaves, like *Arabidopsis thaliana*), or part of a leaf and place on wet filter paper in a petri dish. Heat stress in the dark at 38°C/90 minutes to 2 hours and then allow to recover for 2 hours at room temperature in low light (leave it on the lab bench). You should be able to load 10 ug for western blotting and compare the non-heat stressed to the heat stressed sample. Use *Arabidopsis thaliana* leaf as a positive control. Following such treatment 1 ug of a total protein from *Arabidopsis thaliana* allows detection of HSP101.

Description

Hsp101/ClpB is a member of the HSP100 protein family. These proteins help protein aggregates formed during heat stress break down, allowing them to be refolded by other companion proteins. In addition to being expressed during heat stress, members of the HSP100 protein family are also expressed during seed development.

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