product AS07 255
HSP17.7 | Cytosolic class II heat shock protein 17.7

product information

Background
Hsp17.7 belongs to a family of class II of a small heat shock proteins. They are induced once a plant cells are stressed by an increased temperature. The way small hsp proteins are protecting a living cell are not fully understood. They seem to be involved in chaperone functions by protecting other proteins from irreversible denaturation. Small hsp function also in a late seed maturation process.

Immunogen
Full length recombinant protein produced in E. coli and purified by conventional methods (no affinity tag). Arabidopsis thaliana Hsp17.7 CII (class two) O65376, At1g12030

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 tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

Tested applications
Western blot (WB)

Related products
- AS07 254 | anti-HSP17.6 | cytosolic class I heat shock protein 17.6 rabbit antibody
- AS08 284 | anti-HSP17.6 | cytosolic class I heat shock protein 17.6 hen antibody
- collection of antibodies to plant heat shock proteins

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

Not reactive in
Oryza sativa

Additional information

Selected references
application example

15 µg of total protein from (HS) heat shocked (38°C/2h) Arabidopsis thaliana, (C) Arabidopsis thaliana control plants. (1,2,5,10) 1,2,5,10 ng of recombinant purified 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 ECL (Thermo Scientific) 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.