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).

**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 antibodies
- **AS08 284** | Anti-HSP17.6 | cytosolic class I heat shock protein 17.6 chicken antibodies

**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*

**Selected references**

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 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.