Background: Hsp17.6 belongs to a family of class I of small heat shock proteins. They are induced once a plant cell is stressed by an increased temperature. The way small hsp proteins protect living cells is 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: Recombinant Arabidopsis thaliana Hsp17.6 CI (class one) P13853, At1g53540

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)

Confirmed reactivity: Arabidopsis thaliana, Agave tequilana var. Weber, Citrus sp., Cucumis sativus, Iris pumilla (perennial monocot), Pinellia ternata, Pinus sylvestris, Silene vulgaris, Solanum tuberosum, Vicia faba

Predicted reactivity: Higher plants, Nicotiana tabacum

Not reactive in: No confirmed exceptions from predicted reactivity are currently known.

Additional information: There are six total class I genes. Essentially this antibody might react to some extent with all of them. But does not react with class II, organelle, or any other shsp classes.

Selected references:
- Balfagón et al. (2018). Involvement of ascorbate peroxidase and heat shock proteins on citrus tolerance to combined conditions of drought and high temperatures. Plant Physiol Biochem. 2018


**Application example**

15 µg of total protein from (HS) heat shocked *Arabidopsis thaliana*, (C) *Arabidopsis thaliana* control plants, (1,2,5,10) 1,2,5,10 ng of recombinant purified HSP17.6 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).