

Product: Anti-Hsp 17.7 (class II cytosolic)

Product no: AS07 255

Antibodies for plant sciences

Product Information

Antibody clonality: Polyclonal

Raised in: Rabbit

Purity: Serum

Quantity: 200 µl

Antibody form: Lyophilized. Please, add 200 µl of distilled water to re-constitute. Remember to spin tubes briefly prior to opening to avoid any losses that might occur from liquid or lyophilized material adhering to the cap or sides of the tubes.

Storage instructions: -20°C
Please, avoid freezing and thawing.
Make aliquots instead.

Application information:

Western Blot: 1: 1 000 with ECL

MW: 17.7 kDa

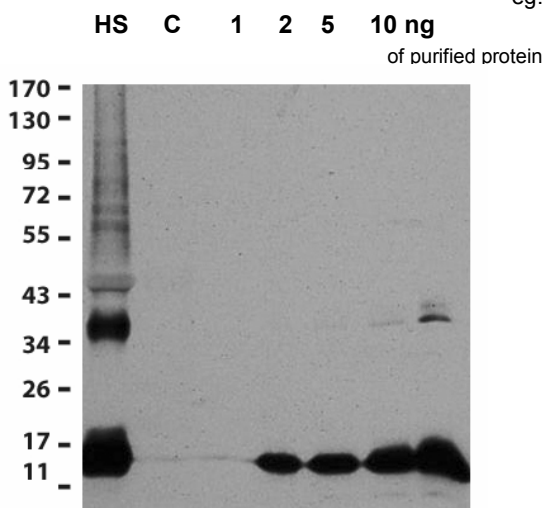
Reactivity: *Arabidopsis thaliana* (tested so far)

Background

Hsp17.7 belongs to the class II family of small heat shock proteins. They are induced when plant cells are stressed by increased temperature. The way small HSPs protect living cells is not fully understood. They seem to be involved in chaperone functions by protecting other proteins from irreversible denaturation. Small HSPs also appear late in seed maturation.

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

From left to right: 15 µg of a total protein from HS- heat shocked (38 C, 2 hr) and C- control plants. Antibodies will work with less loaded per lane, eg. 5 µg of total seedling protein.



Samples and marker were resolved on 15 % SDS gels and blotted to nitrocellulose filters (Biorad) using buffers and conditions as described by the manufacturers. Filters were probed with serum diluted 1:1,000 and secondary HRP-conjugated antibody (1:10,000, Abcam) detected by 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.

Antibodies are intended for the research use only not for diagnostic or therapeutic use.

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