

product **AS07 254**

**HSP17.6 | cytosolic class I heat shock protein 17.6**

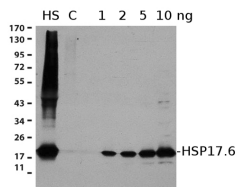
## product information

<b>background</b>	<b>Hsp17.6</b> belongs to a family of class I 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.
<b>immunogen</b>	recombinant protein. <i>Arabidopsis thaliana</i> Hsp17.6 CI (class one) <a href="#">P13853</a>
<b>antibody format</b>	rabbit polyclonal serum lyophilized
<b>quantity</b>	200 µl for reconstitution add 200 µl of sterile water.
<b>storage</b>	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.
<b>tested applications</b>	western blot (WB)
<b>additional information</b>	to be added when available

## application information

<b>recommended dilution</b>	1: 1000 with standard ECL (WB)
<b>expected   apparent MW</b>	17.6 kDa
<b>confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Agave tequilana</i> var. Weber, <i>Cucumis sativus</i> , <i>Iris pumilla</i> (perennial monocot), <i>Pinus sylvestris</i> , <i>Silene vulgaris</i>
<b>predicted reactivity</b>	higher plants
<b>not reactive in</b>	no confirmed exceptions from predicted reactivity known in the moment
<b>additional information</b>	to be added when available
<b>selected references</b>	<a href="#">Korotaeva</a> et al. (2010). Variations in the content of stress proteins in the needles of common pine ( <i>Pinus sylvestris</i> L.) within an annual cycle. J. of Forest Res. <a href="#">Luján</a> et al. (2009). Small heat-shock proteins and leaf cooling capacity account for the unusual heat tolerance of the central spike leaves in <i>Agave tequilana</i> var. Weber. Plant Cell Environ. 32(12):1791-803.

## 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 from Abcam).