

product **AS08 350**  
**DnaK2 | heat shock protein 70-2 (HSP70-2)**

## product information

<b>background</b>	DnaK2 belongs to the family of heat shock proteins 70 and functions as a chaperone involved in stress response. DnaK2 is heat induced but also present at high level under normal growth conditions.
<b>immunogen</b>	full length recombinant DnaK2 protein derived from <i>Synechocystis</i> PCC 6803 DnaK2 protein sequence <a href="#">P22358</a>
<b>antibody format</b>	rabbit polyclonal serum, lyophilized
<b>quantity</b>	200 µl
<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 (WB)
<b>expected   apparent MW</b>	67.6   76 kDa
<b>confirmed reactivity</b>	<i>Synechocystis</i> PCC 6803
<b>predicted reactivity</b>	<i>Anabaena</i> sp., <i>Crocospaera watsonii</i> , <i>Cyanothece</i> sp. PCC 7424, <i>Lyngbya</i> sp. PCC 8106, <i>Microcoleus chthonoplastes</i> PCC 7420, <i>Nodularia spumigena</i> CCY 9414, <i>Synechococcus</i> sp. PCC 7942 and other cyanobacterial strains
<b>not reactive in</b>	no confirmed exceptions from predicted reactivity known in the moment
<b>additional information</b>	not available at the moment
<b>selected references</b>	not available yet, antibody released in February 2009

## application example

**10 µg of total protein** from total cell extract of *Synechocystis* PCC 6803 wild type (WT) and mutant strain that lacks Hsp16.6 were separated on 8 % gel and blotted on nitrocellulose membrane. Filters were blocked (1h), incubated with 1:1000 anti-DnaK2 antibodies (2h) followed by incubation with 1: 2500 secondary anti-rabbit (1h) coupled to HRP and visualization with standard ECL plus (GE Healthcare), exposure time 10 seconds.

