

product **AS01 001**  
**ClpC | chloroplastic form of HSP100**

### product information

<b>background</b>	<b>ClpC</b> is a chloroplastic protein of the Hsp100 family. It is believed to function as a housekeeping enzyme, both in its capacity as an independent molecular chaperone and as the regulatory component of the Clp protease.
<b>immunogen</b>	recombinant ClpC (C-terminal domain overexpressed as fusion with maltose-binding protein) <a href="#">Q55023</a>
<b>antibody format</b>	rabbit polyclonal serum lyophilized
<b>quantity</b>	100 µl, for reconstitution add 100 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); immunoprecipitation (IP); immunohistochemistry (IHC)
<b>additional information</b>	Anti-ClpC antibodies will also recognize <i>Arabidopsis thaliana</i> isoform <a href="#">ClpC1</a> (At5g50920) and <a href="#">ClpC2</a> (At3g48870).

### application information

<b>recommended dilution</b>	1 : 5000 on 10 µg of total protein, detected with standard ECL (WB); 1 : 1000 (IHC)
<b>expected   apparent MW</b>	n.a.   87 kDa
<b>confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Synechococcus</i> sp., <i>Chlamydomonas reinhardtii</i> , <i>Streptomyces</i> sp.
<b>predicted reactivity</b>	dicots including: <i>Nicotiana tabacum</i> , <i>Pisum sativum</i> , <i>Solanum tuberosum</i> , monocots including: <i>Oryza sativa</i> , <i>Zea mays</i> , trees. <i>Populus trichocarpa</i> , moss: <i>Physcomitrella patens</i> , red alga, <i>Ostreococcus</i> sp.
<b>not reactive in</b>	different strains of <i>Mycobacterium smegmatis</i>
<b>additional information</b>	n.a.
<b>selected references</b>	<a href="#">Porankiewicz</a> & Clarke (1997) Induction of the heat shock protein ClpB affects cold acclimation in the cyanobacterium <i>Synechococcus</i> sp. strain PCC7942. J Bacteriol 179:5111-5117; <a href="#">Karradt</a> et al. (2008) NblA, a Key Protein of Phycobilisome Degradation, Interacts with ClpC, a HSP100 Chaperone Partner of a Cyanobacterial Clp Protease. J Biol Chem 283: 32394-32403

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Antibodies for research

This product is **for research use only** (not for diagnostic or therapeutic use)

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