**ClpC | Chloroplastic form of HSP100**

**Product information**

**Background**
ClpC 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.

**Immunogen**
Recombinant ClpC (C-terminal domain overexpressed as fusion with maltose-binding protein) Q55023

**Host**
Rabbit

**Clonality**
Polyclonal

**Purity**
Serum

**Format**
Lyophilized

**Quantity**
100 µl

**Reconstitution**
For reconstitution add 100 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**
Immunoprecipitation (IP), Immunohistochemistry (IHC), Western blot (WB)

**Related products**
- AS08 344 | anti-ClpB1 ATP-dependent chaperone, rabbits antibodies
- AS08 355 | anti-ClpB2 ATP-dependent chaperone, rabbit antibodies
- AS09 459 | anti-ClpB-P | ClpB3, rabbit antibodies
- AS13 2655 | anti-ClpP6 | chloroplast ClpP6 proteolytic subunit, rabbit antibodies
- AS15 3077 | anti-pClpP | Chloroplastic ATP-dependent Clp protease proteolytic subunit 1, rabbit antibodies
- AS07 253 | anti-HSP101 | ClpB heat shock protein, N-terminal, rabbit antibodies
- AS08 287 | anti-HSP101 | ClpB heat shock protein, C-terminal, rabbit antibodies
- AS08 355 | anti-slr0156 | ATP-dependent chaperone clpB, rabbit antibodies
- AS08 344 | anti-slr1641 | ATP-dependent chaperone clpB, rabbit antibodies

**Additional information**
Anti-ClpC antibodies will also recognize *Arabidopsis thaliana* isoform ClpC1 (At5g50920) and ClpC2 (At3g48870).

**Application information**

**Recommended dilution**
1 : 1000 (IHC), 1 : 5000 on 10 µg of total protein, (WB)

**Expected | apparent MW**
92 | 87 kDa

**Confirmed reactivity**
*Arabidopsis thaliana*, *Synechococcus sp.*, *Chlamydomonas reinhardtii*, *Streptomyces* sp.

**Predicted reactivity**
Algae (red), *Catalpa bungei*, *Nicotiana tabacum*, *Ostreococcus sp.*, *Oryza sativa*, *Populus trichocarpa*, *Physcomitrella patens*, *Pisum sativum*, *Solanum tuberosum*, *Zea mays*

**Not reactive in**
Different strains of *Mycobacterium smegmatis*

**Additional information**

**Selected references**
Karradt et al. (2008) NblA, a Key Protein of Phycobilisome Degradation, Interacts with ClpC, a HSP100 Chaperone