

Product no **AS16 4054****Anti-ClpR1 | ATP-dependent Clp protease proteolytic subunit-related protein 1 (chloroplastic)****Product information**

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| Immunogen | BSA-conjugated peptide derived from ClpR1 of <i>Arabidopsis thaliana</i> , TAIR: AT1G49970 , UniProt: Q9XJ35 |
| Host | Rabbit |
| Clonality | Polyclonal |
| Purity | Serum |
| Format | Lyophilized |
| Quantity | 50 µl |
| Reconstitution | For reconstitution add 50 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 the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube. |

Application information

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| Recommended dilution | 1 : 500 (WB) |
| Expected apparent MW | 42 28 kDa |
| Confirmed reactivity | <i>Arabidopsis thaliana</i> |
| Predicted reactivity | <i>Brassica napus</i> , <i>Citrus sinensis</i> , <i>Daucus carota subsp. sativus</i> , <i>Eucalyptus grandis</i> , <i>Spinacia oleracea</i> Species of your interest not listed? Contact us |
| Not reactive in | <i>Zea mays</i> |
| Additional information | For western blot detection image refer to the article below |
| Selected references | Lee & Back . (2021) Melatonin Regulates Chloroplast Protein Quality Control via a Mitogen-Activated Protein Kinase Signaling Pathway. <i>Antioxidants</i> . 2021; 10(4):511. https://doi.org/10.3390/antiox10040511 Sjögren et al. (2004). Inactivation of the clpC1 gene encoding a chloroplast Hsp100 molecular chaperone causes growth retardation, leaf chlorosis, lower photosynthetic activity, and a specific reduction in photosystem content. <i>Plant Physiol.</i> 2004 Dec;136(4):4114-26. Epub 2004 Nov 24. |