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Product no AS09 459

ClpB-P | ClpB3

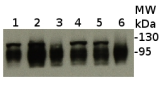
Product information

Immunogen	KLH-conjugated peptide derived from ClpB-P of *Arabidopsis thaliana* Q9LF37, At5g15450
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 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.
Additional information	There is a cross-reacting band at ca. 95 kDa - therefore longer electrophoresis time is adviced to obtain good separation

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	108.9 | 100 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Populus trichocarpa, Ricinus communis, Vitis vinifera* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Jeran et al. (2021) The PUB4 E3 Ubiquitin Ligase Is Responsible for the Variegated Phenotype Observed upon Alteration of Chloroplast Protein Homeostasis in Arabidopsis Cotyledons. Genes (Basel). 2021 Sep 6;12(9):1387. doi: 10.3390/genes12091387. PMID: 34573369; PMCID: PMC8464772. Tieu Ngoc et al. (2020). N4-methylcytidine ribosomal RNA methylation in chloroplasts is crucial for chloroplast function, development, and abscisic acid response in Arabidopsis. J Integr Plant Biol. 2020 Sep 2. doi: 10.1111/jipb.13009. Epub ahead of print. PMID: 32876986. Han et al. (2015). A nuclear-encoded chloroplast-targeted S1 RNA-binding domain protein affects chloroplast rRNA processing and is crucial for the normal growth of Arabidopsis thaliana. Plant J. 2015 Jul;83(2):277-89. doi: 10.1111/tpj.12889. Epub 2015 Jun 15.

Application example



10 µg of total protein from 7 day old *Arabidopsis* plants grown at control conditions, 22°C wilde type, Columbia-9 **(1)**, hot1-3, HSP101 null **(2)**, clpBp-1, ClpBp null **(3)** and heat shocked at 38°C for 1.5 hour wilde type, Columbia-9 **(4)**, hot1-3, HSP101 null **(5)**, clpBp-1, ClpBp null **(6)** were separated on 7-16 % SDS-PAGE and blotted overnight to nitrocellulose membrane. Blots were blocked immediately following transfer in for 1h at room temperature with agitation. Blots were incubated in Agrisera anti-ClpB-P antibody (AS09 459) at a dilution of 1: 1000 for 1h at room temperature with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at room temperature with agitation. Blots were incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:2500 in 5% dry milk blocking solution for 1h at room temperature with agitation. The blots were washed as above and developed for 5 min with ECL detection reagent according to the manufacturers instructions. Exposure time was 20 seconds.

Courtesy Minsoo Kim, University of Arizona, USA