

# Anti-10 kDa chaperonin 1, chloroplastic antibody

Catalog: PHY7173S

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	Co-chaperonin complex is required for substrate encapsulation during assisting the folding of the unfolded protein with the chaperonin complex. Co-chaperonin also termed as GroES, Cpn10 and Hsp10. GROES (AT3G60210) is a chloroplast-localized chaperonin 10 protein.
<b>Synonyms:</b>	GROES, CPN10-I
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (15 aa from Central section) derived from <i>Arabidopsis thaliana</i> GROES (AT3G60210).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Serum Peptide affinity form antibody available upon request at <a href="mailto:info@phytoab.com">info@phytoab.com</a> .
<b>Reconstitution:</b>	Reconstitution with 150 µl of sterile water. "Note: please spin tube briefly prior to opening it to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tube".
<b>Stability &amp; Storage:</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 6 months, -20 to -70°C under sterile conditions after reconstitution. 1 month, 2 to 8°C under sterile conditions after reconstitution.
<b>Shipping:</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

## Application Information

<b>Recommended Dilution:</b>	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
<b>Expected / apparent MW:</b>	15 kDa
<b>Predicted Reactivity:</b>	Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in <i>Brassica rapa</i> , <i>Brassica napus</i> , <i>Glycine max</i> , <i>Medicago truncatula</i> , <i>Oryza sativa</i>

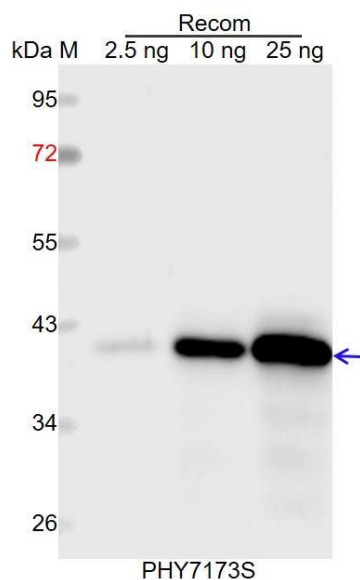
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*Japonica Group, Zea mays, Vitis vinifera, Triticum aestivum, Hordeum vulgare, Populus trichocarpa, Spinacia oleracea, Gossypium raimondii, Nicotiana tabacum, Panicum virgatum, Solanum lycopersicum, Solanum tuberosum, Nicotiana tabacum, Sorghum bicolor, Setaria viridis, Cucumis sativus.*

The sequence of the synthetic peptide used for immunization is 93% homologues with the sequence in CPN10 (AT2G44650).

For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).

## Application Example



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 41 kDa.

**Electrophoresis:** 12% SDS-PAGE

**Transfer:** blotting to NC (nitrocellulose) membrane for 1 h.

**Blocking:** 5% skim milk at RT or 4°C for 1 h.

**Primary antibody:** 1:1000 dilution overnight at 4°C.

**Secondary antibody:** 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

**Detection:** using chemiluminescence substrate and image were captured with CCD camera.