

# Anti-Chaperonin 60 subunit alpha 2, chloroplastic antibody

Catalog: PHY1358S

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	Type I chaperonins are large, double ring complexes involved in mediating the folding of unfolded proteins. In chloroplasts, chaperonin complex is designated Cpn60 complex. In Arabidopsis, two Cpn60 $\alpha$ subunits and four Cpn60 $\beta$ subunits are present. Cpn60 $\alpha$ 2 (AT5G18820) is one of putative Cpn60 $\alpha$ subunit with low expression level in chloroplasts and is essential for embryo development.
<b>Synonyms:</b>	CPN60A2, CHAPERONIN-60ALPHA2, CPNA2, CPN60ALPHA2, EMB3007, EMBRYO DEFECTIVE 3007
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (16 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> CPN60A2 (AT5G18820).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 $\mu$ g
<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 $\mu$ l 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.
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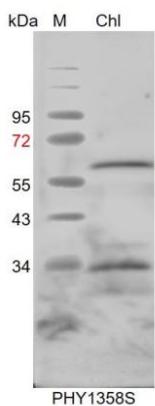
Research Use Only

**Expected / apparent MW:** 61 kDa

**Confirmed Reactivity:** *Arabidopsis thaliana*

**Predicted Reactivity:** Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Brassica rapa*, *Brassica napus*.  
For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).

## Application Example



Chl: 7.5 µg total chloroplast protein from *Arabidopsis thaliana*.

**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:** 1:2000 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.