

# Anti-Heat shock 70 kDa protein 6, chloroplastic antibody

Catalog: PHY0164A

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	70 kDa heat shock proteins (Hsp70s) act as molecular chaperones involved in essential cellular processes such as protein folding and protein transport across membranes. They also play a role in the cell's response to a wide range of stress conditions.
<b>Synonyms:</b>	cpHsc70-1, CHLOROPLAST HEAT SHOCK PROTEIN 70-1, CPHSC70-1, AtHsp70-6, HSP70-6
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (14 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> cpHsc70-1 (AT4G24280).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Immunogen affinity purified
<b>Reconstitution:</b>	Reconstitution with 150 µl of 0.01 M sterile PBS. "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>	77 kDa
<b>Confirmed Reactivity:</b>	Coming soon

Research Use Only

**Predicted Reactivity:**

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Brassica rapa*, *Brassica napus*, and 80-99% homologues with the sequence in *Vitis vinifera*, *Glycine max*, *Cucumis sativus*, *Medicago truncatula*, *Populus trichocarpa*, *Panicum virgatum*, *Zea mays*, *Sorghum bicolor*, *Setaria viridis*, *Oryza sativa Japonica Group*, *Nicotiana tabacum*, *Hordeum vulgare*, *Triticum aestivum*, *Solanum lycopersicum*, *Gossypium raimondii*, *Solanum tuberosum*.

The sequence of the synthetic peptide used for immunization is 93% homologues with the sequence in cpHsc70-2 (AT5G49910).

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