

Anti-HSP17.6C antibody

Catalog: PHY0149A

Product Information

Description:	Rabbit polyclonal antibody
Background:	HSP17.6C is a cytosolic small heat shock protein (sHSP) belonging to the HSP20 family. It functions as a molecular chaperone that binds unfolded proteins to prevent their aggregation, thereby playing a crucial role in protein folding and thermotolerance. Its expression is strongly induced by heat, salt, hydrogen peroxide, and other abiotic stresses.
Synonyms:	HSP17.6C, 17.6 kDa class I heat shock protein 3, AtHsp17.6C
Immunogen:	KLH-conjugated synthetic peptide (15 aa from central section) derived from <i>Arabidopsis thaliana</i> HSP17.6C (AT1G53540).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of sterile 1XPBS (PH=7.4) containing 30% glycerol. "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".
Stability & Storage:	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.
Shipping:	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	18 kDa

Research Use Only

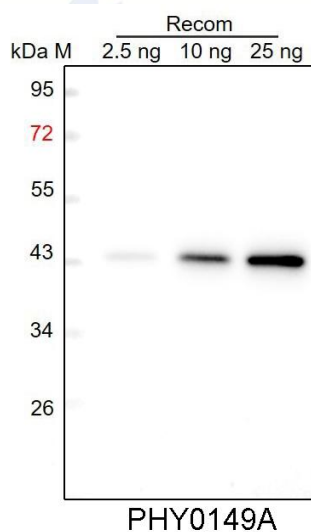
Predicted Reactivity:

Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 93% homologues with the sequence in *Triticum aestivum*, *Hordeum vulgare*, *Glycine max*, *Sorghum bicolor*, *Brassica napus*, *Populus trichocarpa*, *Brassica rapa*, *Solanum tuberosum*, *Solanum lycopersicum*, *Vitis vinifera*, *Medicago truncatula*, *Oryza sativa*, *Spinacia oleracea*, *Sorghum bicolor*, *Gossypium raimondii*, *Panicum virgatum*, *Setaria viridis*, *Cucumis sativus*, and 87% homologues with the sequence in *Zea mays*.

The sequence of the synthetic peptide used for immunization is 80-87% homologues with the sequence in HSP17.6B (AT2G29500), HSP17.4 (AT3G46230), HSP18.2 (AT5G59720) and HSP17.8 (AT1G07400), HSP22 (AT4G10250), and HSP17.6A (AT1G59860).

For more species homologues information, please contact tech support at 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 43 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.