

Anti-Heat shock 70 kDa protein 1 antibody

Catalog: PHY3419S

Product Information

Description:	Rabbit polyclonal antibody
Background:	Hsp70s function as molecular chaperones and are encoded by a multi-gene family whose members play a crucial role in plant response to stress conditions, and in plant growth and development.
Synonyms:	HSP70-1, ARABIDOPSIS HEAT SHOCK PROTEIN 70, ATHSP70, HEAT SHOCK 70 KDA PROTEIN 1, HEAT SHOCK PROTEIN 70, HSC70-1, HSP70
Immunogen:	KLH-conjugated synthetic peptide (15 aa from central section) derived from <i>Arabidopsis thaliana</i> HSP70-1 (AT5G02500).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Serum Peptide affinity form antibody available upon request at info@phytoab.com .
Reconstitution:	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".
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:	71 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Brassica napus</i> , <i>Brassica rapa</i> , <i>Brassica cretica</i> , <i>Gossypium raimondii</i> ,

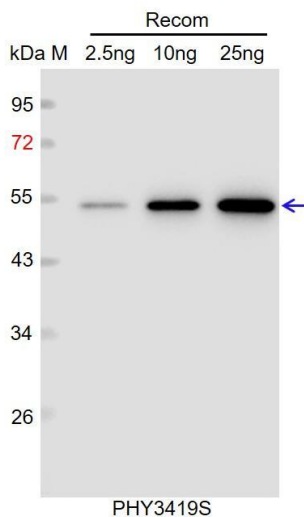
Research Use Only

Gossypium barbadense, *Nicotiana tabacum*, *Sorghum bicolor*, *Triticum aestivum*, *Zea mays*, *Solanum lycopersicum*, *Solanum tuberosum*, *Solanum demissum*, *Oryza sativa Indica Group*.

The sequence of the synthetic peptide used for immunization is 93% homologues with the sequence in HSP70-2 (AT5G02490), and 87% homologues with the sequence in HSP70T-1 (AT1G56410), and 80% homologues with the sequence in Hsp70b (AT1G16030).

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 53 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.