

Anti-Heat shock 70 kDa protein 4 antibody

Catalog: PHY3421S

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: HSP70-4, ARABIDOPSIS HEAT SHOCK PROTEIN 70, ATHSP70, HEAT

SHOCK 70 KDA PROTEIN 4, HEAT SHOCK PROTEIN 70, HSC70-4, HSP70

Immunogen: KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from

Arabidopsis thaliana HSP70-4 (AT3G12580).

Form: Lyophilized

Quantity:150 μgPurification: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 &Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Storage: 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 Brassica

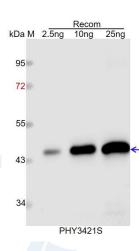
napus, Brassica rapa, Panicum virgatum, Triticum aestivum,



Solanum lycopersicum, Hordeum vulgare, Nicotiana tabacum, Oryza sativa, Glycine max, Sorghum bicolor, Setaria viridis, Solanum tuberosum, Zea mays, and 80-99% homologues with the sequence in Vitis vinifera, Spinacia oleracea, Gossypium raimondii, Cucumis sativus.

The sequence of the synthetic peptide used for immunization is 93% homologues with the sequence in HSP70-1 (AT5G02500), HSP70T-1 (AT1G56410), AT3G09440, and HSP70-2 (AT5G02490), 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 45 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.