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Product no AS07 270

DnaK | chloroplast stromal chaperone

Product information

Immunogen recombiant HSP70B of Chlamydomonas reinhardtii (XP_001696432), UniProt: A8HYV3

Host Rabbit

Clonality Polyclonal

Purity Serum

Format Lyophilized

Quantity 50 μl

Reconstitution For reconstitution add 50 μl of sterile water

Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please

remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to

the cap or sides of the tube.

Application information

Recommended dilution 1:5000 (WB)

Expected | apparent

70 kDa

Confirmed reactivity

Chlamydomonas reinhardtii, Synechocystis 6803 motile, Synechocystis 6803 GT (glucose tolerant strain),

Synechococcus elongates sp. PCC7942

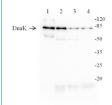
Predicted reactivity | Species of your interest not listed? Contact us

Not reactive in No confirmed exceptions from predicted reactivity are currently known

Additional information It is not determined which isoform of DnaK is recognized by this antibody in Arabidopsis thaliana.

Selected references Göhre et al. (2006). One of Two Alb3 Proteins Is Essential for the Assembly of the Photosystems and for Cell Survival in Chlamydomonas The Plant Cell 18:1454-1466.

Application example



15 μg of Arabidopsis thaliana leaf extract (1), 10 μg of total protein from: Synechocystis 6803 motile (2), Synechocystis 6803 GT (glucose tolerant strain) (3), Synechococcus elongates 7942 (4), Marker - Pierce™ Prestained Protein MW Marker (kat #26612): Total protein was extracted with following buffer: 10 mM Tris HC I, pH 8.0, 0.5% LDS, 4% glycerol, 0.1 mM EDTA were mixed with sample buffer and denatured for 5 min at 95°C. Samples were separated on 10% S DS -PAGE and b lotted 1 h to nitrocellulose membrane (Amersha m Protran) using tank wet transfer (Bio -Rad) in standard transfer buffer in presence of 20% methanol. Transfer of proteins to the membrane was checked using 0,5% Ponceau S staining before the blocking step. Blots were blocked in buffer (2 % lo w -fat milk in 1xPBS, 0,1% Tween) for 1 h at room temperature (RT) with agitation. Blots were incubated in the primary antibody at a dilution of 1:5000 for 1 h at RT with agitation. The antibody solutionwas decanted and the blot was rinsed briefly twice, then washed once f or 15 min and 3 times for 5 min in PBS -T at RT with agitation. Blot was incubated in secondary antibody (goat anti-rabbit IgG, AS09 602, Agrisera) dilut ed to 1:30 000 in for 1 h at RT with agitation. The blot was was washed as above and developed for 5 min with Clarity Western ECL Substrate and ChemiDoc detection system (Bio-Rad).

Courtesy Dr. Elena Pojidaeva, Laboratory of Plant Gene Expression, Timiryazev Institute of Plant Physiology RAS, 127276 Moscow Russia