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Product no AS07 270

Anti-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
Storage	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 MW	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 - P ierce™ Prestained Protein MW Marker (kat #26612): Total protein was extracted with following buffer: 10 mM Tris HC l, 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 a nd b lo tted 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