DnaK (E. coli) monoclonal antibody (8E2/2)

DnaK possesses an autophosphorylation activity and a weak 5-nucleotidase activity, cleaving the 5 phosphate groups from both ribose and deoxyribose nucleotides. The role of DnaK in ATP-dependent protein-protein interactions has been extended to normal *E. coli* physiology, where, like eukaryotic Hsp70 homologs, it is thought to participate in the assembly/disassembly of protein complexes.

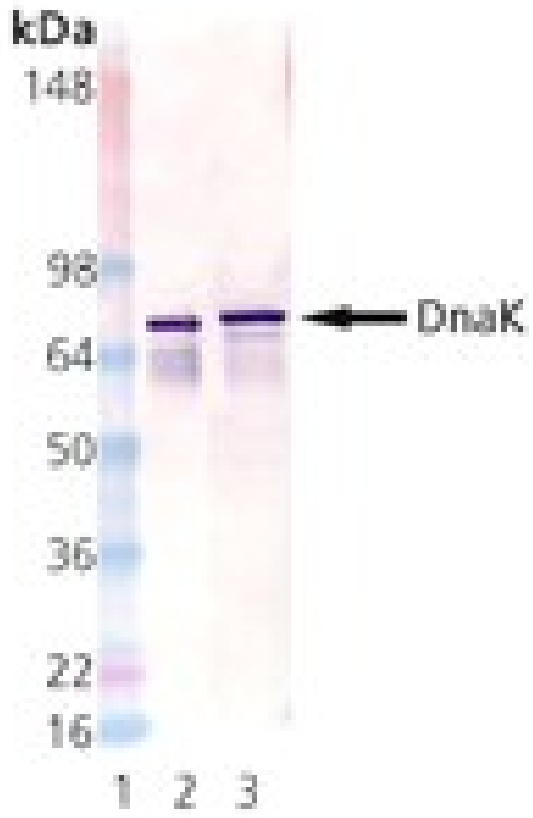
This antibody is covered by our Worry-Free Guarantee.

Citations: 74 View Online »

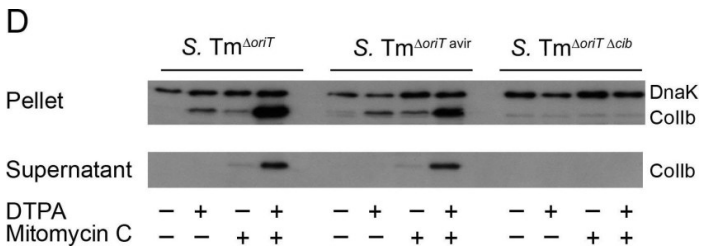
Ordering Information Order Online »

ADI-SPA-880-J	1mg
ADI-SPA-880-D	50µg
ADI-SPA-880-F	200µg

Manuals, SDS & CofA View Online »



Western blot analysis: Lane 1: MW Marker, Lane 2: DnaK active recombinant protein (Prod. No. ADI-SPP-630), Lane 3: E. coli cell lysate.



Expression of S. Tm ColIb is induced by iron limitation and the SOS response.(A) Organization of the ColIb locus showing location of the Fur and LexA repressor binding sites in the ColIb (cib) promoter and the immunity protein gene (imm). Overnight cultures of S. TmΔoriT (B) and S. TmΔoriT avir (C) carrying the reporter plasmid pcib-luc were re-inoculated 1 20 in fresh LB with indicated supplements (0.25 µg/ml mitomycin C; 100 mM DTPA) and grown under aeration for 4 h. Cultures were normalized to OD600, bacteria were harvested and luciferase-activity was measured in bacterial lysates. Relative luminescence units (RLU) per unit OD600 are indicated. (D) Overnight cultures of indicated S. Tm strains were re-inoculated 1 20 in fresh LB with indicated supplements (0.25 µg/ml mitomycin C; 100 mM DTPA) and grown under aeration for 4 h. OD600 of the cultures was normalized, bacteria were harvested and ColIb was detected in bacterial lysates as well as in the culture supernatant by immunoblot using an affinity-purified rabbit-α-ColIb antiserum. S. Tm DnaK was detected as loading control.

Image collected and cropped by CiteAb under a CC-BY license from the following publication: Inflammation fuels colicin Ib-dependent competition of Salmonella serovar Typhimurium and E. coli in enterobacterial blooms. *PLoS Pathog* (2014)

Handling & Storage

Handling	Avoid freeze/thaw cycles.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Hsp70
Application	WB
Application Notes	Detects a band of ~70kDa by Western blot.
Clone	8E2/2
Formulation	Liquid. In PBS, pH 7.2, containing 50% glycerol and 0.09% sodium azide.
GenBank ID	AP009048
Host	Mouse
Immunogen	E. coli DnaK.
Isotype	IgG1
Purity Detail	Protein G affinity purified.
Recommendation Dilutions/Conditions	Western Blot (1:10,000)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application.
Source	Purified from ascites.
Species Reactivity	E. coli
UniProt ID	P0A6Y8 (strain K12)

Worry-free Guarantee

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