HSC70 (plant) monoclonal antibody (5B7)

The Hsp70 family of heat shock protiens contains multiple homologs ranging in size from 66-78 kDa, and are the eukaryotic equivalents of the bacterial DnaK. The most studied Hsp70 members include the cytosolic stress-induced Hsp70 (Hsp72), the constitutive cytosolic Hsc70 (Hsp73), and the ER-localized BiP (Grp78). Hsp70 family members contain highly conserved N-terminal ATP-ase and C-terminal protein binding domains. Binding of peptide to Hsp70 is assisted by Hsp40, and stimulates the inherent ATPase activity of Hsp70, facilitating ATP hydrolysis and enhanced peptide binding. Hsp70 nucleotide exchange and substrate binding coordinates the folding of newly synthesized proteins, the re-folding of misfolded or denatured proteins, coordinates trafficking of proteins across cellular membranes, inhibits protein aggregation, and targets the degradation of proteins via the proteasomal pathway.

This antibody is covered by our Worry-Free Guarantee.

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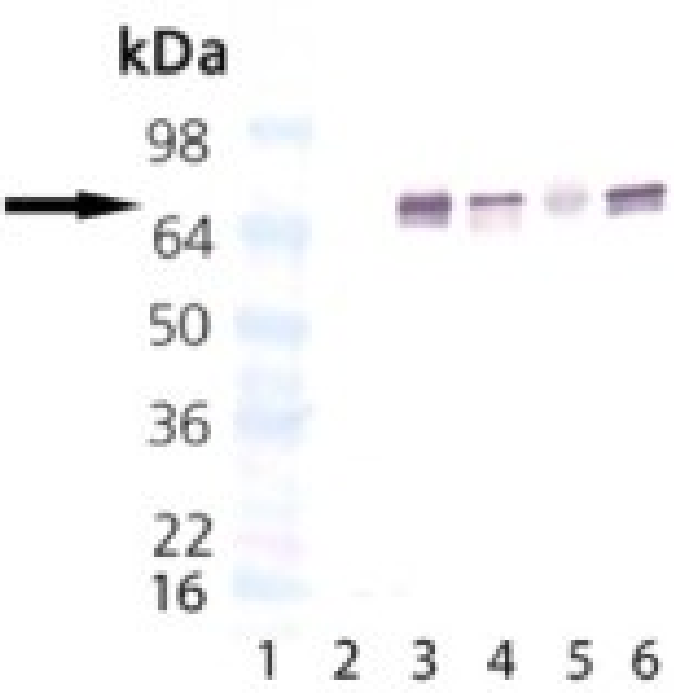
ADI-SPA-817-D	50µg
ADI-SPA-817-F	200µg

Manuals, SDS & CofA View Online »



Western blot analysis of HSC70: Lane 1: MW marker, Lane 2: DnaK Recombinant E. coli Protein, Lane 3: Banana Lysate, Lane 4: Orange Lysate, Lane 5: Carrot Lysate, Lane 6: Cytosolic wheat HSC70.

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	Heat shock protein 70, Hsc70, Hsp73
Application	IP, WB
Application Notes	Detects a band of ~70kDa by Western blot.
Clone	5B7
Formulation	Liquid. In PBS containing 50% glycerol and 0.09% sodium azide.
Host	Mouse
Immunogen	Recombinant spinach Hsc70 (Hsp73).
Isotype	IgG1
Purity Detail	Protein G affinity purified.
Source	Purified from mouse ascites.
Species Reactivity	Plant
Worry-free Guarantee	**This antibody is covered by our Worry-Free Guarantee .**

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