



DB090: HspBP1 (FL4)

Background:

HspBP1 is an Hsp70-interacting protein that was first isolated from a human heart cDNA library using the yeast two-hybrid system (1). The ATPase domain of Hsp70 binds HspBP1 and upon binding inhibits Hsp70 chaperone activity. More recently HspBP1 was found to be a homologue of the yeast Fes1 and Sls1 proteins and promotes nucleotide dissociation from Hsc70. HspBP1 has also been shown to strip nucleotide from yeast Ssa1p, making it a member of the class of nucleotide exchange factors that exhibit varying degrees of compartment and species specificity (2). HspBP1 is highly expressed in heart, brain, skeletal muscle, and pancreas tissues. It is also expressed in pancreatic, hepatic, and astrocytic cell lines.

Origin:

HspBP1 (FL4) is provided as an affinity purified rabbit polyclonal antibody, raised against a truncation mutant that contains amino acids 84-359 of human recombinant HspBP1 (3).

Product Details:

Each vial contains 200 µg/ml of affinity purified rabbit IgG, HspBP1 (FL4) DB090, in 1 ml PBS containing 0.1 % sodium azide and 0.2% gelatin.

Specificity:

HspBP1 (FL4) is recommended for use by western blotting. The suggested western blotting starting dilution is at 1:1000. Immunoprecipitation and Immunohistochemistry not yet tested.

Storage:

Store this product at 4° C, do not freeze. The product is stable for one year from the date of shipment.

References:

1. Raynes DA, Guerriero V Jr. 1998. Inhibition of Hsp70 ATPase activity and protein renaturation by a novel Hsp70-binding protein. *J. Biol Chem.* 273(49):32883-32888.
2. Kabani M, McLellan C, Raynes DA, Guerriero V, Brodsky JL. 2002. HspBP1, a homologue of the yeast Fes1 and Sls1 proteins, is an Hsc-70 nucleotide exchange factor. *FEBS Lett.* 531(2):339-342.
3. McLellan CA, Raynes DA, Guerriero V. 2003. HspBP1, an Hsp70 cochaperone, has two structural domains and is capable of altering the conformation of the Hsp70 ATPase domain. *J. Biol. Chem.* 278(21):19017-19022.

*DB090 (FL4)HspBP1 is sold under License from Desert Genetics, Inc. under United States Patent 6,410,713