SANTA CRUZ BIOTECHNOLOGY, INC.

HspBP1 (C-17): sc-34256

BACKGROUND

HSP 70-interacting protein (HspBP1) belongs to a family of eukaryotic proteins identified as nucleotide exchange factors for HSP 70, which exhibit varying degrees of compartment and species specificity. HspBP1 interferes with the CHIP-induced degradation of immature forms of the cystic fibrosis transmembrane conductance regulator (CFTR) and stimulates CFTR maturation. HspBP1 binds to HSP 70, inhibits its activity and promotes dissociation of nucleotides from the HSP 70 ATPase domain. It is an approximately 40 kDa protein mainly expressed in heart and skeletal muscle.

REFERENCES

1. Kabani, M., McLellan, C., Raynes, D.A., Guerriero, V. and Brodsky, J.L. 2002. HspBP1, a homologue of the yeast Fes1 and Sls1 proteins, is an HSC 70 nucleotide exchange factor. FEBS Lett. 531: 339-342.
2. Raynes, D.A., Graner, M.W., Bagatell, R., McLellan, C. and Guerriero, V. 2003. Increased expression of the HSP 70 cochaperone HspBP1 in tumors. Tumour Biol. 24: 281-285.

CHROMOSOMAL LOCATION

Genetic locus: HSPBP1 (human) mapping to 19q13.42; 1500019G21Rik (mouse) mapping to 7 A1.

SOURCE

HspBP1 (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of HspBP1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-34256 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HspBP1 (C-17) is recommended for detection of HspBP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

HspBP1 (C-17) is also recommended for detection of HspBP1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for HspBP1 siRNA (h): sc-45314, HspBP1 siRNA (m): sc-45315, HspBP1 shRNA Plasmid (h): sc-45314-SH, HspBP1 shRNA Plasmid (m): sc-45315-SH, HspBP1 shRNA (h) Lentiviral Particles: sc-45314-V and HspBP1 shRNA (m) Lentiviral Particles: sc-45315-V.

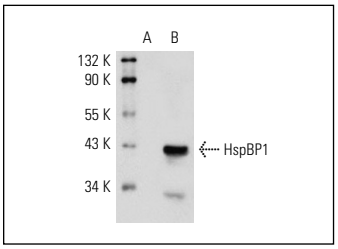
Molecular Weight of HspBP1: 45 kDa.

Positive Controls: HspBP1 (h): 293 Lysate: sc-110611, HspBP1 (m): 293T Lysate: sc-126981 or HeLa whole cell lysate: sc-2200.

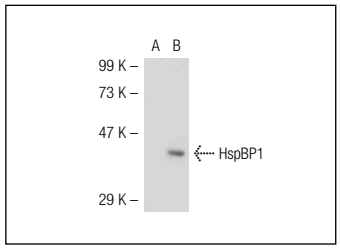
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



HspBP1 (C-17): sc-34256. Western blot analysis of HspBP1 expression in non-transfected: sc-110760 (**A**) and human HspBP1 transfected: sc-110611 (**B**) 293 whole cell lysates.



HspBP1 (C-17): sc-34256. Western blot analysis of HspBP1 expression in non-transfected: sc-117752 (**A**) and mouse HspBP1 transfected: sc-126981 (**B**) 293T whole cell lysates.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.