

HSPBAP1 (H-81): sc-292266

BACKGROUND

HSPBAP1 (HSPB (heat shock 27kDa) associated protein 1), also known as PASS1 (protein associated with small stress protein 1), is a 488 amino acid cytoplasmic protein that contains one JMJC (Jumonji C) domain and shares 80% identity with its rat homolog, PASS1. Widely expressed with highest expression in ovary, thymus and pancreas, HSPBAP1 is thought to play a role in mediating cellular stress responses within the cell. Due to the presence of a JMJC domain, HSPBAP1 may be involved in chromatin remodeling events. Defects or translocations in the gene encoding HSPBAP1 are associated with renal cell carcinoma 1 (RCC1), suggesting a possible role for HSPBAP1 in carcinogenesis. Three isoforms of HSPBAP1 exist due to alternative splicing events.

REFERENCES

1. Liu, C., et al. 2000. Identification and characterization of a novel protein from Sertoli cells, PASS1, that associates with mammalian small stress protein hsp27. *J. Biol. Chem.* 275: 18724-18731.
2. Jiang, M., et al. 2001. Molecular cloning and characterization of a novel human gene (HSPBAP1) from human fetal brain. *Cytogenet. Cell Genet.* 95: 48-51.
3. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 608263. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Bodmer, D., et al. 2003. Disruption of a novel gene, DIRC3, and expression of DIRC3-HSPBAP1 fusion transcripts in a case of familial renal cell cancer and t(2;3)(q35;q21). *Genes Chromosomes Cancer* 38: 107-116.
5. Xi, Z.Q., et al. 2007. HSPBAP1 is found extensively in the anterior temporal neocortex of patients with intractable epilepsy. *Synapse* 61: 741-747.

CHROMOSOMAL LOCATION

Genetic locus: HSPBAP1 (human) mapping to 3q21.1; Hspbp1 (mouse) mapping to 16 B3.

SOURCE

HSPBAP1 (H-81) is a rabbit polyclonal antibody raised against amino acids 148-228 mapping within an internal region of HSPBAP1 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.

STORAGE

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

PROTOCOLS

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

APPLICATIONS

HSPBAP1 (H-81) is recommended for detection of HSPBAP1 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).

HSPBAP1 (H-81) is also recommended for detection of HSPBAP1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for HSPBAP1 siRNA (h): sc-78001, HSPBAP1 siRNA (m): sc-146104, HSPBAP1 shRNA Plasmid (h): sc-78001-SH, HSPBAP1 shRNA Plasmid (m): sc-146104-SH, HSPBAP1 shRNA (h) Lentiviral Particles: sc-78001-V and HSPBAP1 shRNA (m) Lentiviral Particles: sc-146104-V.

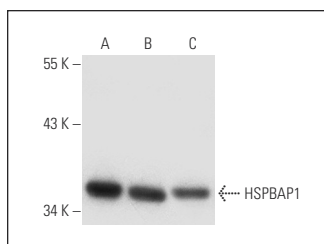
Molecular Weight of HSPBAP1: 53 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, A549 cell lysate: sc-2413 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 goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



HSPBAP1 (H-81): sc-292266. Western blot analysis of HSPBAP1 expression in Jurkat (A), HeLa (B) and A549 (C) whole cell lysates.

RESEARCH USE

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