

HSPBAP1 (B-25): sc-133680

BACKGROUND

HSPBAP1 (HSPB (heat shock 27 kDa) 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

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2. Jiang, M., Ma, Y., Cheng, H., Ni, X., Guo, L., Xie, Y. and Mao, Y. 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., Schepens, M., Eleveld, M.J., Schoenmakers, E.F. and Geurts van Kessel, A. 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.
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CHROMOSOMAL LOCATION

Genetic locus: HSPBAP1 (human) mapping to 3q21.1.

SOURCE

HSPBAP1 (B-25) is an affinity purified rabbit polyclonal antibody raised against synthetic HSPBAP1 peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 0.5 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

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.

APPLICATIONS

HSPBAP1 (B-25) is recommended for detection of HSPBAP1 of 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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

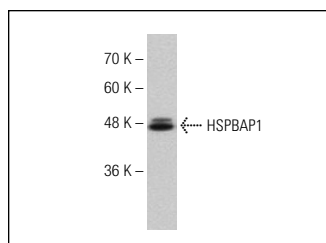
Molecular Weight of HSPBAP1: 53 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or HeLa whole cell lysate: sc-2200.

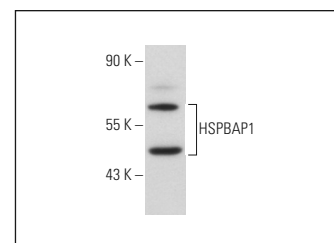
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



HSPBAP1 (B-25): sc-133680. Western blot analysis of HSPBAP1 expression in Jurkat whole cell lysate.



HSPBAP1 (B-25): sc-133680. Western blot analysis of HSPBAP1 expression in HeLa whole cell lysate.

PROTOCOLS

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



Try **HSPBAP1 (B-1): sc-374290**, our highly recommended monoclonal alternative to HSPBAP1 (B-25).