

HSPBAP1 (B-1): sc-374290

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.

CHROMOSOMAL LOCATION

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

SOURCE

HSPBAP1 (B-1) is a mouse monoclonal antibody raised against a peptide mapping near the N-terminus of HSPBAP1 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

HSPBAP1 (B-1) is available conjugated to agarose (sc-374290 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-374290 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-374290 PE), fluorescein (sc-374290 FITC), Alexa Fluor® 488 (sc-374290 AF488), Alexa Fluor® 546 (sc-374290 AF546), Alexa Fluor® 594 (sc-374290 AF594) or Alexa Fluor® 647 (sc-374290 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-374290 AF680) or Alexa Fluor® 790 (sc-374290 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

HSPBAP1 (B-1) is recommended for detection of HSPBAP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 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.

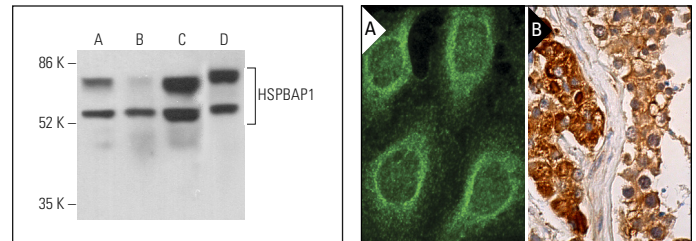
Molecular Weight of HSPBAP1: 53 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, CCRF-CEM cell lysate: sc-2225 or MOLT-4 cell lysate: sc-2233.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



HSPBAP1 (B-1): sc-374290. Western blot analysis of HSPBAP1 expression in Jurkat (A), MOLT-4 (B), CCRF-CEM (C) and BYDP (D) whole cell lysates.

HSPBAP1 (B-1): sc-374290. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing cytoplasmic staining of cells in seminiferous ducts and Leydig cells (B).

SELECT PRODUCT CITATIONS

- Saeed, K., et al. 2015. Androgen receptor-interacting protein HSPBAP1 facilitates growth of prostate cancer cells in androgen-deficient conditions. *Int. J. Cancer* 136: 2535-2545.

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 for detailed protocols and support products.