

BSPRY (H-300): sc-134643

BACKGROUND

BSPRY (B-box and SPRY domain containing) is a 402 amino acid protein that localizes to both the membrane and the cytoplasm and contains one B box-type zinc finger and one B30.2/SPRY domain. Existing as two alternatively spliced isoforms, BSPRY interacts with TRPV5 and TRPV6, and is thought to regulate the transport of calcium across the epithelium, probably by inhibiting the activity of TRPV proteins. The gene encoding BSPRY maps to human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: BSPRY (human) mapping to 9q32; Bspry (mouse) mapping to 4 B3.

SOURCE

BSPRY (H-300) is a rabbit polyclonal antibody raised against amino acids 103-402 mapping at the C-terminus of BSPRY 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.

APPLICATIONS

BSPRY (H-300) is recommended for detection of BSPRY 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).

BSPRY (H-300) is also recommended for detection of BSPRY in additional species, including canine and bovine.

Suitable for use as control antibody for BSPRY siRNA (h): sc-92522, BSPRY siRNA (m): sc-141765, BSPRY shRNA Plasmid (h): sc-92522-SH, BSPRY shRNA Plasmid (m): sc-141765-SH, BSPRY shRNA (h) Lentiviral Particles: sc-92522-V and BSPRY shRNA (m) Lentiviral Particles: sc-141765-V.

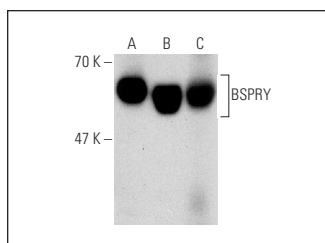
Molecular Weight of BSPRY: 44 kDa.

Positive Controls: MIA PaCa-2 cell lysate: sc-2285, K-562 whole cell lysate: sc-2203 or rat kidney extract: sc-2394.

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



BSPRY (H-300): sc-134643. Western blot analysis of BSPRY expression in MIA PaCa-2 (A) and K-562 (B) whole cell lysates and rat kidney tissue extract (C).

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.