**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 with chromosome 9. Notably, chromosome 9 encompasses the largest interfer by harmful vascular defects, and Familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interfer on family gene cluster.

**REFERENCES**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

BSPRY (C-12) is a mouse monoclonal antibody raised against amino acids 103-402 mapping at the C-terminus of BSPRY of human origin.

**RESEARCH USE**

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

**PRODUCT**

Each vial contains 200 ng IgG\(_{2b}\) kappa light chain in 1 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

BSPRY (C-12) is recommended for detection of BSPRY 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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

Molecular Weight of BSPRY: 57 kDa.


**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG\(_{k}\) BP-HRP: sc-516102 or m-IgG\(_{k}\) BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-24941 or UltraCruz ® Hard-set Mounting Medium: sc-359850.

**DATA**

- **PROTOCOLS**
  - See our web site at www.scbt.com for detailed protocols and support products.