SANTA CRUZ BIOTECHNOLOGY, INC.

EPSTI1 (Q-20): sc-84104

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

EPSTI1 (epithelial-stromal interaction protein 1), also known as BRESI1, is a 318 amino acid protein that is highly expressed in spleen, placenta, small intestine, liver, kidney, thymus, testis and salivary gland. Existing as three isoforms that are formed due to alternative splicing events, EPSTI1 is weakly expressed in normal breast tissue, but is heavily upregulated in breast carcinoma, suggesting an important role for EPSTI1 in tumor formation and/or progression. Additionally, EPSTI1 is found in blood cells from systemic lupus erythematosus (SLE)-afflicted patients, implicating EPSTI1 as a potential protein involved in SLE.

REFERENCES

1. Nielsen, H.L., et al. 2002. Identification of EPSTI1, a novel gene induced by epithelial-stromal interaction in human breast cancer. Genomics 79: 703-710.
2. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 607441. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
3. Gudjonsson, T., et al. 2003. To create the correct microenvironment: three-dimensional heterotypic collagen assays for human breast epithelial morphogenesis and neoplasia. Methods 30: 247-255.
4. Dunham, A., et al. 2004. The DNA sequence and analysis of human chromosome 13. Nature 428: 522-528.
5. Ishii, T., et al. 2005. Isolation and expression profiling of genes upregulated in the peripheral blood cells of systemic lupus erythematosus patients. DNA Res. 12: 429-439.

CHROMOSOMAL LOCATION

Genetic locus: EPSTI1 (human) mapping to 13q14.11.

SOURCE

EPSTI1 (Q-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of EPSTI1 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84104 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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

EPSTI1 (Q-20) is recommended for detection of EPSTI1 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for EPSTI1 siRNA (h): sc-105335, EPSTI1 shRNA Plasmid (h): sc-105335-SH and EPSTI1 shRNA (h) Lentiviral Particles: sc-105335-V.

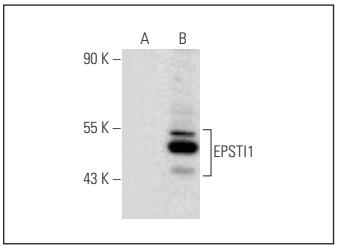
Molecular Weight of EPSTI1: 37 kDa.

Positive Controls: EPSTI1 (h2): 293 Lysate: sc-171958.

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



EPSTI1 (Q-20): sc-84104. Western blot analysis of EPSTI1 expression in non-transfected: sc-110760 (**A**) and human EPSTI1 transfected: sc-171958 (**B**) 293 whole cell lysates.

RESEARCH USE

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