SANTA CRUZ BIOTECHNOLOGY, INC.

EHBP1 (H-3): sc-515636

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The Power to Question

BACKGROUND

EHBP1L1 (EH domain binding protein 1-like 1), alternately known as tangerin in mice, is a 1,523 amino acid protein containing one CH (calponin-homology) domain. EHBP1L1 contains multiple phosphoserine residues and exists as five alternatively spliced isoforms in mice. Additional isoforms of human EHBP1L1 have not been characterized. The gene encoding EHBP1L1 maps to murine chromosome 19 A and human chromosome 11q13.1. Chromosome 11 houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

REFERENCES

1. Fabiani, J.E., et al. 2000. Hereditary angioedema. Long-term follow-up of 88 patients. Experience of the Argentine Allergy and Immunology Institute. Allergol. Immunopathol. 28: 267-271.
2. Jira, P.E., et al. 2003. Smith-Lemli-Opitz syndrome and the DHCR7 gene. Ann. Hum. Genet. 67: 269-280.
3. Schuchman, E.H. 2007. The pathogenesis and treatment of acid sphingomyelinase-deficient Niemann-Pick disease. J. Inherit. Metab. Dis. 30: 654-663.
4. Siem, G., et al. 2008. Jervell and Lange-Nielsen syndrome in Norwegian children: aspects around cochlear implantation, hearing, and balance. Ear Hear. 29: 261-269.
5. Bhuiyan, Z.A., et al. 2008. An intronic mutation leading to incomplete skipping of exon-2 in KCNQ1 rescues hearing in Jervell and Lange-Nielsen syndrome. Prog. Biophys. Mol. Biol. 98: 319-327.
6. Coldren, C.D., et al. 2009. Chromosomal microarray mapping suggests a role for BSX and Neurogranin in neurocognitive and behavioral defects in the 11q terminal deletion disorder (Jacobsen syndrome). Neurogenetics 10: 89-95.

CHROMOSOMAL LOCATION

Genetic locus: EHBP1 (human) mapping to 2p15; Ehbp1 (mouse) mapping to 11 A3.2.

SOURCE

EHBP1 (H-3) is a mouse monoclonal antibody raised against amino acids 553-670 mapping within an internal region of EHBP1 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain 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

EHBP1 (H-3) is recommended for detection of EHBP1 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 EHBP1 siRNA (h): sc-94286, EHBP1 siRNA (m): sc-144602, EHBP1 shRNA Plasmid (h): sc-94286-SH, EHBP1 shRNA Plasmid (m): sc-144602-SH, EHBP1 shRNA (h) Lentiviral Particles: sc-94286-V and EHBP1 shRNA (m) Lentiviral Particles: sc-144602-V.

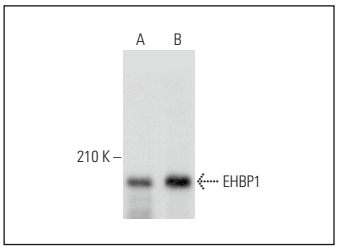
Molecular Weight of EHBP1: 140 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, RPMI2650 whole cell lysate: sc-364192 or Caco-2 cell lysate: sc-2262.

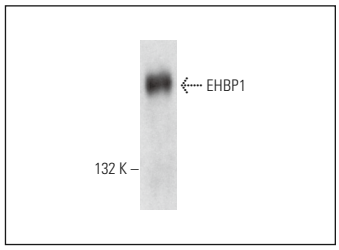
RECOMMENDED SUPPORT REAGENTS

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.

DATA



EHBP1 (H-3): sc-515636. Western blot analysis of EHBP1 expression in RPMI2650 (**A**) and Caco-2 (**B**) whole cell lysates.



EHBP1 (H-3): sc-515636. Western blot analysis of EHBP1 expression in HeLa whole cell lysate.

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.