SANTA CRUZ BIOTECHNOLOGY, INC.

EB3 (h2): 293T Lysate: sc-173257

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

EB1 (MAPRE2, microtubule-associated protein, RP/EB family, member 2, EB2, RP1) may influence tumorigenesis of colorectal cancers and proliferative control of normal cells. EB1 may belong to the intermediate/early gene family, involved in the signal transduction cascade downstream of the TCR. Colorectal cancer is caused by the pathologic transformation of normal colonic epithelium to an adenomatous polyp, which can become an invasive cancer. APC (adenomatous polyposis coli) is a tumor suppressor gene, the mutation of which is one of the earliest events in colorectal carcinogenesis. A majority of the mutations result in the loss of the carboxy terminus of APC. EB1 has been shown to bind to the carboxy terminal region of APC, which implicates EB1 in APC suppression of colonic cancer. EB1 overexpression may play a role in the development of human esophageal squamous cell carcinoma (ESCC) by affecting APC function and activating the beta-catenin/TCF pathway. EB3 is related to EB1 and likewise associates with the microtubule cytoskeleton. EB3 is expressed predominantly in the central nervous system and preferentially associates with APCL.

REFERENCES

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3. Levy, D.B., Smith, K.J., Beazer-Barclay, Y., Hamilton, S.R., Vogelstein, B. and Kinzler, K.W. 1994. Inactivation of both APC alleles in human and mouse tumors. Cancer Res. 54: 5953-5958.
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5. Oda, H., Imai, Y., Nakatsuru, Y., Hata, J. and Ishikawa, T. 1996. Somatic mutations of the APC gene in sporadic hepatoblastomas. Cancer Res. 56: 3320-3323.
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CHROMOSOMAL LOCATION

Genetic locus: MAPRE3 (human) mapping to 2p23.3.

PRODUCT

EB3 (h2): 293T Lysate represents a lysate of human EB3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

EB3 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive EB3 antibodies.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

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.