SANTA CRUZ BIOTECHNOLOGY, INC.

RBP-Jκ (h2): 293T Lysate: sc-117065

BACKGROUND

Recombination signal binding protein Jκ (RBP-Jκ), also designated KBF2 or CBF1, is the mammalian homolog of the *Drosophila* Suppressor of Hairless [Su(H)], a protein involved in the development of the peripheral nervous system. RBP-Jκ is ubiquitously expressed in mammalian tissues and is involved in the regulation of gene expression. RBP-Jκ has been shown to directly interact with the intercellular domain of the cell surface receptor Notch 1. Proteolytically cleaved Notch 1 translocates to the nucleus, where it binds DNA-bound RBP-Jκ and activates transcription of target genes. These genes include NFκB p52 and the Epstein-Barr virus (EBV) protein EBNA-2, both of which contain RBP-Jκ-binding sequences within their promoter regions.

REFERENCES

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3. Waltzer, L., et al. 1995. RBP-Jκ repression activity is mediated by a co-repressor and antagonized by the Epstein-Barr virus transcription factor EBNA2. Nucleic Acids Res. 23: 4939-4945.
4. Tamura, K., et al. 1995. Physical interaction between a novel domain of the receptor Notch and the transcription factor RBP-Jκ/Su(H). Curr. Biol. 5: 1416-1423.
5. Hsieh, J.J., et al. 1996. Truncated mammalian Notch 1 activates CBF1/RBP-Jκ-repressed genes by a mechanism resembling that of Epstein-Barr virus EBNA2. Mol. Cell. Biol. 16: 952-959.
6. Oswald, F., et al. 1998. NFκB2 is a putative target gene of activated Notch-1 via RBP-Jκ. Mol. Cell. Biol. 18: 2077-2088.
7. Waltzer, L., et al. 1994. The human Jκ recombination signal sequence binding protein (RBP-J κ) targets the Epstein-Barr virus EBNA2 protein to its DNA responsive elements. EMBO J. 13: 5633-5638.

CHROMOSOMAL LOCATION

Genetic locus: RBPJ (human) mapping to 4p15.2.

PRODUCT

RBP-Jκ (h2): 293T Lysate represents a lysate of human RBP-Jκ 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.

PROTOCOLS

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

APPLICATIONS

RBP-Jκ (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive RBP-Jκ antibodies. Recommended use: 10-20 µl per lane.

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.