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SANTA CRUZ BIOTECHNOLOGY, INC.

CtIP (m): 293T Lysate: sc-119500

BACKGROUND

CtBP1 is a cellular phosphoprotein that associates with various proteins and functions as a co-repressor of transcription. CtBP1 and the related protein CtBP2 are characterized as C-terminal binding protein of adenovirus E1A, and they preferentially associate with the E1A via a 5-amino acid motif, PLDLS, to repress E1A induced oncogenesis and cellular transformation. CtBP1 is expressed from embryo to adult, but CtBP2 is mainly expressed during embryogenesis. During skeletal and T cell development, CtBP1 and CtBP2 associate with the PLDLSL domain of EF-1 δ, a cellular zinc finger-homeodomain protein, and thereby enhance EF-1 δ induced transcriptional silencing. In addition, CtBP complexes with CtIP, a protein that recognizes distinctly different protein motifs from CtBP. CtIP binds to the BRCT repeats within the breast cancer gene BRCA1 and enables CtBP to influence BRCA1 activity. CtIP/CtBP binding to BRCA1 inhibits the transactivation of the p21 promoter, and it is critical for regulating p21 transcription in response to DNA damage.

REFERENCES

1. Sollerbrant, K., et al. 1996. The CtBP binding domain in the adenovirus E1A protein controls CR1-dependent transactivation. Nucleic Acids Res. 24: 2578-2584.
2. Sekido, R., et al. 1997. Two mechanisms in the action of repressor δEF1: binding site competition with an activator and active repression. Genes Cells 2: 771-783.
3. Schaeper, U., et al. 1998. Interaction between a cellular protein that binds to the C-terminal region of adenovirus E1A (CtBP) and a novel cellular protein is disrupted by E1A through a conserved PLDLS motif. J. Biol. Chem. 273: 8549-8552.
4. Turner, J., et al. 1998. Cloning and characterization of mCtBP2, a co-repressor that associates with basic Krüppel-like factor and other mammalian transcriptional regulators. EMBO J. 17: 5129-5140.
5. Wong, A.K., et al. 1998. Characterization of a carboxy-terminal BRCA1 interacting protein. Oncogene 17: 2279-2285.
6. Yu, X., et al. 1998. The C-terminal (BRCT) domains of BRCA1 interact *in vivo* with CtIP, a protein implicated in the CtBP pathway of transcriptional repression. J. Biol. Chem. 273: 25388-25392.
7. Furusawa, T., et al. 1999. Identification of CtBP1 and CtBP2 as co-repressors of zinc finger-homeodomain factor δEF1. Mol. Cell. Biol. 19: 8581-8590.
8. Li, S., et al. 1999. Binding of CtIP to the BRCT repeats of BRCA1 involved in the transcription regulation of p21 is disrupted upon DNA damage. J. Biol. Chem. 274: 11334-11338.

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.

CHROMOSOMAL LOCATION

Genetic locus: Rbbp8 (mouse) mapping to 18 A1.

PRODUCT

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

APPLICATIONS

CtIP (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive CtIP antibodies. Recommended use: 10-20 µl per lane.

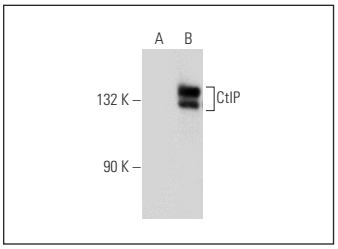
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

CtIP (F-2): sc-28324 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse CtIP expression in CtIP transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

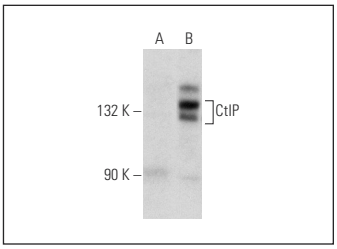
RECOMMENDED SUPPORT REAGENTS

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.

DATA



CtIP (F-2): sc-28324. Western blot analysis of CtIP expression in non-transfected: sc-117752 (**A**) and mouse CtIP transfected: sc-119500 (**B**) 293T whole cell lysates.



CtIP (E-2): sc-48415. Western blot analysis of CtIP expression in non-transfected: sc-117752 (**A**) and mouse CtIP transfected: sc-119500 (**B**) 293T whole cell lysates.

RESEARCH USE

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