



▶ HEXIM1 (m): 293T Lysate: sc-125440

BACKGROUND

Hexamethylene bis-acetamide inducible 1 (HEXIM1) and Hexamethylene bis-acetamide inducible 2 (HEXIM2) comprise a family of proteins which inhibit positive transcription elongation factor b (P-TEFb) through association with 7SK. P-TEFb is composed of a catalytic subunit, Cdk9, and either Cyclin T1 or T2 as a regulatory subunit. This complex regulates eukaryotic gene expression at the level of elongation. The C-terminal domains of HEXIM proteins interact directly with each other. Via these domains, HEXIM1 and HEXIM2 form stable homo- and hetero-oligomers, which may aid in the formation of the 7SK small nuclear ribonucleic acid particle. Despite their similar functions, HEXIM1 and HEXIM2 exhibit distinct expression patterns in various established cell lines and human tissues.

REFERENCES

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3. Li, Q., Price, J.P., Byers, S.A., Cheng, D., Peng, J. and Price, D.H. 2005. Analysis of the large inactive P-TEFb complex indicates that it contains one 7SK molecule, a dimer of HEXIM1 or HEXIM2, and two P-TEFb molecules containing Cdk9 phosphorylated at Threonine 186. *J. Biol. Chem.* 280: 28819-28826.
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5. Fraldi, A., Varrone, F., Napolitano, G., Michels, A.A., Majello, B., Bensaude, O. and Lania, L. 2005. Inhibition of Tat activity by the HEXIM1 protein. *Retrovirology* 2: 42.

CHROMOSOMAL LOCATION

Genetic locus: Hexim1 (mouse) mapping to 11 E1.

PRODUCT

HEXIM1 (m): 293T Lysate represents a lysate of mouse HEXIM1 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

HEXIM1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive HEXIM1 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.