



Meis3 (m): 293T Lysate: sc-127142

BACKGROUND

Hox, Pbx, and Meis families of transcription factors form heteromeric complexes and bind DNA through specific homeobox domains. Meis1, 2, and 3 are members of the TALE (three amino acid loop extension) family of homeodomain containing proteins. Meis1 binds to Hox and Pbx proteins to form complexes with distinct DNA-binding specificities. Like Hox and Pbx proteins, the overexpression of Meis1 in BHL-2 myeloid leukemias implies a role for this protein in oncogenesis. Two Meis related proteins, Meis2 and Meis3 (also designated Mrg1 and Mrg2, respectively), possess largely similar sequence identity with Meis1 and express in normal tissues as well as myeloid leukemias. In the pancreas, Meis2 preferentially associates with Pbx 1, and together they associate with the pancreas specific homeodomain factor, PDX-1, to repress PDX-1-induced transcriptional activation.

REFERENCES

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4. Kroon, E., et al. 1998. HoxA9 transforms primary bone marrow cells through specific collaboration with Meis1a but not Pbx 1b. *EMBO J.* 17: 3714-3725.
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7. Shanmugam, K., et al. 1999. Pbx and MEIS as non-DNA-binding partners in trimeric complexes with Hox proteins. *Mol. Cell. Biol.* 19: 7577-7588.
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CHROMOSOMAL LOCATION

Genetic locus: Meis3 (mouse) mapping to 7 A2.

PRODUCT

Meis3 (m): 293T Lysate represents a lysate of mouse Meis3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Meis3 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Meis3 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.

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.