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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

SANTA CRUZ BIOTECHNOLOGY, INC.

LMO2 (h2): 293T Lysate: sc-115616

BACKGROUND

The LIM-only (LMO) proteins, LMO1 and LMO2, are nuclear factors that are characterized by a conserved LIM domain. The LIM domain consists of a cysteine-rich zinc-binding motif that is present in a variety of transcription factors, including the LIM homeobox (LHX) proteins expressed in the central nervous system and involved in cell differentiation. LMO1 and LMO2 are expressed in the adult CNS in a cell type-specific manner, where they are differentially regulated by neuronal activity and are involved in regulating the cellular differentiated phenotype of neurons. LMO2 lacks a specific DNA-binding homeobox domain but rather assembles into transcriptional regulatory complexes to mediate gene expression by interacting with the widely expressed nuclear LIM interactor (NLI). NLI, known also as CLIM-1, and the related protein CLIM-2 facilitate the formation of heteromeric LIM complexes and also enhance the nuclear retention of LIM proteins. LMO2 and the related protein LMO4 are expressed in thymic precursor cells. LMO4 is also expressed in mature T cells, cranial neural crest cells, somite, dorsal limb bud mesenchyme, motor neurons and Schwann cell progenitors.

REFERENCES

1. Hinks, G.L., Shah, B., French, S.J., Campos, L.S., Staley, K., Hughes, J. and Sofroniew, M.V. 1997. Expression of LIM protein genes LMO1, LMO2 and LMO3 in adult mouse hippocampus and other forebrain regions: differential regulation by seizure activity. J. Neurosci. 17: 5549-5559.
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3. Kenny, D.A., Jurata, L.W., Saga, Y. and Gill, G.N. 1998. Identification and characterization of LMO4, an LMO gene with a novel pattern of expression during embryogenesis. Proc. Natl. Acad. Sci. USA 95: 11257-11262.
4. Grutz, G., Forster, A. and Rabbitts, T.H. 1998. Identification of the LMO4 gene encoding an interaction partner of the LIM-binding protein LDB1/NLI1: a candidate for displacement by LMO proteins in T cell acute leukaemia. Oncogene 17: 2799-2803.
5. Valge-Archer, V., Forster, A. and Rabbitts, T.H. 1998. The LMO1 AND LDB1 proteins interact in human T cell acute leukaemia with the chromosomal translocation t(11;14)(p15;q11). Oncogene 17: 3199-3202.
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7. Chervinsky, D.S., Zhao, X.F., Lam, D.H., Ellsworth, M., Gross, K.W. and Aplan, P.D. 1999. Disordered T cell development and T cell malignancies in SCL LMO1 double-transgenic mice: parallels with E2A-deficient mice. Mol. Cell. Biol. 19: 5025-5035.

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.

CHROMOSOMAL LOCATION

Genetic locus: LMO2 (human) mapping to 11p13.

PRODUCT

LMO2 (h2): 293T Lysate represents a lysate of human LMO2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

LMO2 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive LMO2 antibodies. Recommended use: 10-20 µl per lane.

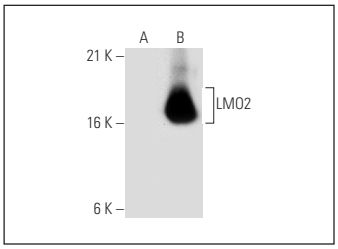
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

LMO2 (1A9-1): sc-65736 is recommended as a positive control antibody for Western Blot analysis of enhanced human LMO2 expression in LMO2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

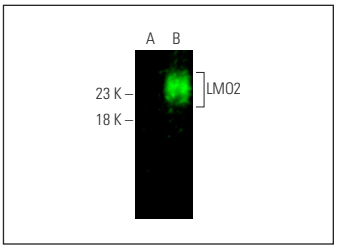
RECOMMENDED SUPPORT REAGENTS

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



LMO2 (1A9-1): sc-65736. Western blot analysis of LMO2 expression in non-transfected: sc-117752 (**A**) and human LMO2 transfected: sc-115616 (**B**) 293T whole cell lysates.



LMO2 (1A9-1): sc-65736. Near-infrared western blot analysis of LMO2 expression in non-transfected: sc-117752 (**A**) and human LMO2 transfected: sc-115616 (**B**) 293T whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgGκ BP-CFL 680: sc-516180.

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.