



BF-1 (m): 293T Lysate: sc-118802

BACKGROUND

The winged-helix transcriptional repressor (WH) BF-1 gene encodes brain factor 1 (BF-1), also known as foxg1, and is essential for the proliferation of progenitor cells in the cerebral cortex and influences regional patterning in the mammalian telencephalon. WH proteins are a family of putative transcriptional regulators with diverse roles in development, and are characterized by a highly conserved DNA binding structure, the WH domain. BF-1 plays a critical role in the development of the cerebral hemispheres of the brain and targeted disruption of the gene leads to severe defects in the development of telencephalic structures, such as the cerebral cortex and basal ganglia. The loss of BF-1 results in an accelerated rate of neuronal differentiation and the shortening of the neurogenetic period in the embryonic cerebral cortex. BF-1 is expressed by E8.5 in telencephalic progenitors. It may also regulate the response of cerebral cortical progenitors to environmental cues.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Foxg1 (mouse) mapping to 12 B3.

PRODUCT

BF-1 (m): 293T Lysate represents a lysate of mouse BF-1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l 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.

RESEARCH USE

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

APPLICATIONS

BF-1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive BF-1 antibodies. Recommended use: 10-20 μ l per lane.

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

PROTOCOLS

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