



Asparagine synthetase (m): 293T Lysate: sc-118591

BACKGROUND

Glutamine-hydrolyzing Asparagine synthetase is also commonly designated cell cycle control protein TS11. Asparagine synthetase plays an important role in the amino-acid biosynthesis pathway and is also important for L-asparagine biosynthesis. Via the L-glutamine route, it is involved in the synthesis of L-asparagine from L-aspartate. The protein contains one Asparagine synthetase domain and one type-2 glutamine amidotransferase domain. The cell-cycle regulated gene encoding for Asparagine synthetase, TS11, is necessary for G₁ progression.

REFERENCES

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3. Greco, A., Gong, S.S., Ittmann, M. and Basilico, C. 1989. Organization and expression of the cell cycle gene, TS11, that encodes Asparagine synthetase. *Mol. Cell. Biol.* 9: 2350-2359.
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6. Fine, B.M., Kaspers, G.J., Ho, M., Loonen, A.H. and Boxer, L.M. 2005. A genome-wide view of the *in vitro* response to L-asparaginase in acute lymphoblastic leukemia. *Cancer Res.* 65: 291-299.

CHROMOSOMAL LOCATION

Genetic locus: Asns (mouse) mapping to 6 A1.

PRODUCT

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

APPLICATIONS

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

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.

PROTOCOLS

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