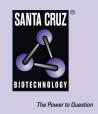
SANTA CRUZ BIOTECHNOLOGY, INC.

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-asparaine 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 G_1 progression.

REFERENCES

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- Van Heeke, G. and Schuster, S.M. 1989. The N-terminal cysteine of human Asparagine synthetase is essential for glutamine-dependent activity. J. Biol. Chem. 264: 19475-19477.
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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 μ g protein in 200 μ l 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: $10-20 \mu l$ 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.

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