# NMT2 (m): 293T Lysate: sc-127232



The Power to Question

#### **BACKGROUND**

N-terminal myristoylation is a cotranslational lipid modification, which is crucial for the targeting and function of many signaling proteins. The N-myristoyltransferases (NMT 1 and NMT 2), also known as glycylpeptide N-tetradecan-oyltransferases, are cytoplasmic proteins that belong to the NMT family of proteins. The proteins in this familiy catalyze the addition of a myristoyl group to the N-terminal glycine residue of eukaryotic, fungal and viral proteins. They are primarily detected in heart, gut, kidney, liver and placenta.

# **REFERENCES**

- McIlhinney, R.A., Patel, P.B. and McGlone, K. 1994. Characterization of a polyhistidine-tagged form of human myristoyl-CoA: protein N-myristoyltransferase produced in *Escherichia coli*. Eur. J. Biochem. 222: 137-146.
- Weston, S.A., Camble, R., Colls, J., Rosenbrock, G., Taylor, I., Egerton, M., Tucker, A.D., Tunnicliffe, A., Mistry, A., Mancia, F., de la Fortelle, E., Irwin, J., Bricogne, G. and Pauptit, R.A. 1998. Crystal structure of the anti-fungal target N-myristoyl transferase. Nat. Struct. Biol. 5: 213-221.
- Rajala, R.V., Kakkar, R., Kanthan, R., Radhi, J.M., Wang, X., Wang, R., Datla, R.S. and Sharma, R.K. 2002. Altered expression and localization of N-myristoyltransferase in experimentally induced rat model of ischemia-reperfusion. J. Cell. Biochem. 86: 509-519.
- Selvakumar, P., Lakshmikuttyamma, A., Lawman, Z., Bonham, K., Dimmock, J.R. and Sharma, R.K. 2004. Expression of methionine aminopeptidase 2, N-myristoyltransferase, and N-myristoyltransferase inhibitor protein 71 in HT29. Biochem. Biophy. Res. Commun. 322: 1012-1017.
- Sharma, R.K. 2004. Potential role of N-myristoyltransferase in pathogenic conditions. Can. J. Physiol. Pharmacol. 82: 849-859.
- Lu, Y., Selvakumar, P., Ali, K., Shrivastav, A., Bajaj, G., Resch, L., Griebel, R., Fourney, D., Meguro, K. and Sharma, R.K. 2005. Expression of N-myristoyltransferase in human brain tumors. Neurochem. Res. 30: 9-13.
- Yang, S.H., Shrivastav, A., Kosinski, C., Sharma, R.K., Chen, M.H., Berthiaume, L.G., Peters, L.L., Chuang, P.T., Young, S.G. and Bergo, M.O. 2005. N-myristoyltransferase 1 is essential in early mouse development. J. Biol. Chem. 280: 18990-18995.
- 8. Price, H.P., Panethymitaki, C., Goulding, D. and Smith, D.F. 2005. Functional analysis of TbARL1, an N-myristoylated Golgi protein essential for viability in bloodstream trypanosomes. J. Cell Sci.118: 831-841.
- Pasha, M.K., Sharma, R.K. and Rajput, A.H. 2005. Increased myocardial N-myristoyltransferase activity in rotenone model of Parkinsonism. Int. J. Mol. Med.15: 987-991.

# **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.

#### **CHROMOSOMAL LOCATION**

Genetic locus: Nmt2 (mouse) mapping to 2 A1.

### **PRODUCT**

NMT2 (m): 293T Lysate represents a lysate of mouse NMT2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

#### **APPLICATIONS**

NMT2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive NMT2 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.

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