MA1 (h): 293T Lysate: sc-115548



The Power to Question

BACKGROUND

Paraneoplastic neurological disorders (PNDs) are rare syndromes that are caused by, or associated with, an underlying neoplasm. The most common neoplasm among young male patients is testicular cancer, but the leading cause among other patients is lung cancer. Most PNDs are caused by an immune response against onconeural antigens, causing progressive neurological damage. The paraneoplastic antigen MA family contains three known members: MA1, MA2 and MA3. MA1, also designated neuron- and testisspecific protein 1, is a nucleolar protein in normal cells but localizes to the cytoplasm of tumor cells. MA2, also designated onconeuronal antigen MA2, is a nucleolar protein expressed in brain and testis. MA3 is highly expressed in brain and testis and is expressed at low levels in heart, trachea and kidney.

REFERENCES

- Dalmau, J., Gultekin, S.H., Voltz, R., Hoard, R., DesChamps, T., Balmaceda, C., Batchelor, T., Gerstner, E., Eichen, J., Frennier, J., Posner, J.B. and Rosenfeld, M.R. 1999. MA1, a novel neuron- and testis-specific protein, is recognized by the serum of patients with paraneoplastic neurological disorders. Brain 122: 27-39.
- 2. Rosenfeld, M.R., Eichen, J.G., Wade, D.F., Posner, J.B. and Dalmau, J. 2001. Molecular and clinical diversity in paraneoplastic immunity to MA proteins. Ann. Neurol. 50: 339-348.
- Pellkofer, H., Schubart, A.S., Höftberger, R., Schutze, N., Pagany, M., Schüller, M., Lassmann, H., Hohlfeld, R., Voltz, R. and Linington, C. 2004. Modelling paraneoplastic CNS disease: T cells specific for the onconeuronal antigen PNMA1 mediate autoimmune encephalomyelitis in the rat. Brain 127: 1822-1830.
- Schüller, M., Jenne, D. and Voltz, R. 2005. The human PNMA family: novel neuronal proteins implicated in paraneoplastic neurological disease.
 Neuroimmunol. 169: 172-176.

CHROMOSOMAL LOCATION

Genetic locus: PNMA1 (human) mapping to 14q24.3.

PRODUCT

MA1 (h): 293T Lysate represents a lysate of human MA1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

MA1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive MA1 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.