SANTA CRUZ BIOTECHNOLOGY, INC.

MAGE-H1 (h): 293T Lysate: sc-159163

BACKGROUND

The melanoma-associated antigen (MAGE) family consists of a number of antigens recognized by cytotoxic T lymphocytes. The MAGE genes were initially isolated from different kinds of tumors and, based on their virtually exclusive tumor-specific expression in adult tissues, they have been used as targets for cancer immunotherapy. MAGE genes encode for tumor-rejection antigens that are expressed in tumors of different histologic types and in normal testis and placenta. MAGE-H1 (melanoma-associated antigen H1), also known as restin or APR1 (apoptosis-related protein 1), is a 219 amino acid protein that contains a type II MAGE homology domain (MHD). Enhanced ligand stimulation promotes MAGE-H1 interaction with the type II death domain of NGFR p75. It is suggested that MAGE-H1 accelerates differentiation in response to nerve growth factor in cells.

REFERENCES

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4. Kobayashi, Y., et al. 2000. Expression of MAGE, GAGE and BAGE genes in human liver diseases: utility as molecular markers for hepatocellular carcinoma. J. Hepatol. 32: 612-617.
5. Tcherpakov, M., et al. 2002. The p75 neurotrophin receptor interacts with multiple MAGE proteins. J. Biol. Chem. 277: 49101-49104.
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7. Shao, J.B. and Chen, Z. 2003. Expression of MAGE, GAGE, and BAGE genes in human hepatocellular carcinoma. Zhonghua Gan Zang Bing Za Zhi 11: 142-144.
8. Albrecht, D.E. and Froehner, S.C. 2004. DAMAGE, a novel α-dystrobrevin-associated MAGE protein in dystrophin complexes. J. Biol. Chem. 279: 7014-7023.

CHROMOSOMAL LOCATION

Genetic locus: MAGEH1 (human) mapping to Xp11.21.

PRODUCT

MAGE-H1 (h): 293T Lysate represents a lysate of human MAGE-H1 transfected 293T cells and is provided as 100 µg protein in 200 µl 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.

APPLICATIONS

MAGE-H1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive MAGE-H1 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.

PROTOCOLS

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