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MAGE-A12 (h2): 293T Lysate: sc-175999

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 and are expressed in tumors of different histologic types and in normal testes and placenta. MAGE-A12 (melanoma-associated antigen 12), also known as MAGE12 or CT1.12 (cancer/testis antigen 1.12), is a 314 amino acid protein that contains one MAGE domain and is thought to play a role in tumor progression. Like other members of the MAGE family, MAGE-A12 is expressed in head and neck squamous cell carcinoma, melanoma, breast cancer and lung cancer, suggesting that MAGE-A12 plays an important role in carcinogenesis.

REFERENCES

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3. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 300177. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Taylor, M., et al. 2007. Breast cancer is a promising target for vaccination using cancer-testis antigens known to elicit immune responses. *Breast Cancer Res.* 9: R46.
5. Wischniewski, F., et al. 2007. Methyl-CpG binding domain proteins and their involvement in the regulation of the MAGE-A1, MAGE-A2, MAGE-A3, and MAGE-A12 gene promoters. *Mol. Cancer Res.* 5: 749-759.
6. Ries, J., et al. 2008. Expression of melanoma-associated antigens in oral squamous cell carcinoma. *J. Oral Pathol. Med.* 37: 88-93.
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CHROMOSOMAL LOCATION

Genetic locus: MAGEA12 (human) mapping to Xq28.

PRODUCT

MAGE-A12 (h2): 293T Lysate represents a lysate of human MAGE-A12 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.

PROTOCOLS

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

APPLICATIONS

MAGE-A12 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive MAGE-A12 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.